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Richland, Washington 99352

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PREFACE

The *Tri-Party Agreement Milestone Summary Report* is issued monthly by the U.S. Department of Energy, Richland Operations Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of the 249 planned interim milestones due by March 31, 1993, 245 were completed.

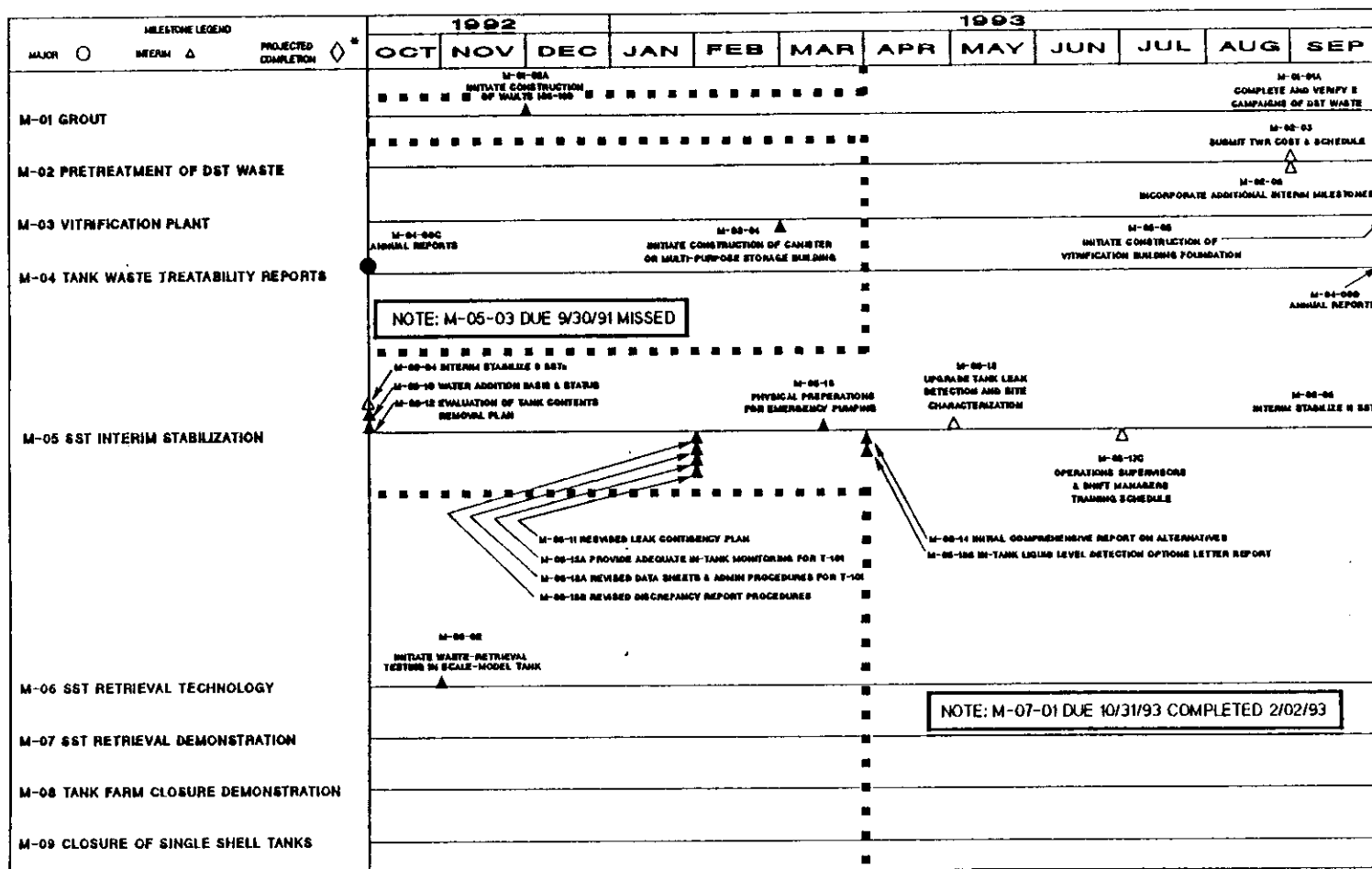
The following Tri-Party Agreement major milestones have been completed; therefore, they are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste.	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement Milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

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TPA MILESTONES

PAGE 1 OF 4



← STATUS AS OF 4-1-93

* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

WMC-MR-0403-5

TPA MILESTONES

WHC-MR-0403-5



TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY MARCH 1993

(\$ in Millions)

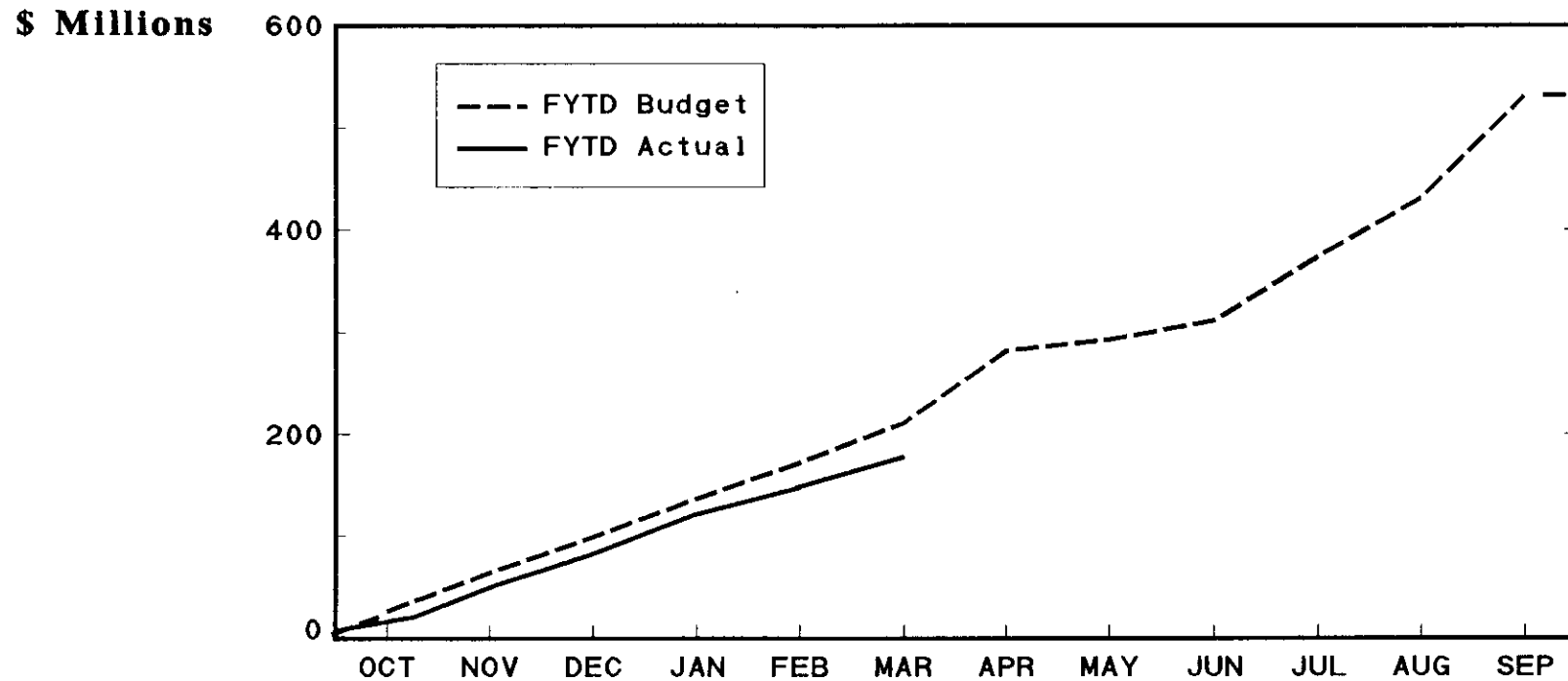
<u>MAJOR MILESTONE</u>	<u>FYTD BUDGET</u>	<u>FYTD COST</u>	<u>SPENDING VARIANCE</u>	<u>ANNUAL BUDGET</u>
M-00 *	9.9	8.4	1.5	25.1
M-01	18.5	14.7	3.8	37.8
M-02 *	7.3	6.3	1.0	35.0
M-03 *	65.3	47.3	18.0	141.3
M-04	0.0	0.0	0.0	0.2
M-05	2.3	1.4	0.9	7.9
M-06 *	1.8	1.3	0.5	3.2
M-07	1.7	1.7	0.0	5.1
M-08	1.3	0.8	0.5	2.9
M-09	4.1	3.8	0.3	5.7
M-10	11.4	11.4	0.0	20.4
M-11	6.5	4.5	2.0	12.4
M-12	0.3	0.2	0.1	0.6
M-13	0.5	0.4	0.1	1.6
M-14	3.1	5.8	(2.7)	10.2
M-15 *	38.5	34.7	3.8	92.2
M-16	5.4	5.0	0.4	12.4
M-17 *	20.4	20.2	0.2	77.8
M-18	3.7	4.9	(1.2)	6.3
M-19	2.5	2.3	0.2	5.8
M-20 *	4.9	3.2	1.7	10.5
M-24	0.9	1.6	(0.7)	3.1
M-26	0.1	0.1	0.0	0.1
M-30	1.2	1.1	0.1	3.6
M-31	3.9	3.6	0.3	11.9
	<u>215.5</u>	<u>184.7</u>	<u>30.8</u>	<u>533.1</u>

* These milestones include costs from other contractors.
All other milestones are WHC only.

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TRI-PARTY AGREEMENT ALL MILESTONES

FY 1993



WHC-MR-0403-5

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LIST OF TERMS

CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CY	calendar year
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ERA	expedited response action
FY	fiscal year
HQ	U.S. Department of Energy, Headquarters
HWVP	Hanford Waste Vitrification Plant
LDR	land disposal restrictions
NEPA	National Environmental Policy Act
OU	operable unit
PSAR	preliminary safety analysis report
PUREX	Plutonium-Uranium Extraction (Plant)
RCRA	Resource Conservation and Recovery Act
RFI/CMS	RCRA facility investigation/corrective measures study
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Operations Office
SST	single-shell tank
TBD	to be determined
TOE	total operating efficiency
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TRUEX	transuranic-extraction
TWRS	tank waste remediation system
WHC	Westinghouse Hanford Company
WRAP	Waste Receiving and Processing (Facility)
WSCF	Waste Sampling and Characterization Facility

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MAJOR MILESTONE: M-01-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: G. H. Sanders **MANAGER:** R. J. Murkowski
BASELINE DATE: December 1996 **PROJECTED DATE:** To be determined (TBD)
DESCRIPTION: Complete 14 grout campaigns.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (including one campaign of phosphate-sulfate waste).	9/93	10/94
M-01-01B	Complete one additional campaign of DST waste (total is three campaigns including one phosphate-sulfate waste campaign).	12/93	TBD

*Projected date reflects *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Change Request M-01-92-01A and the receipt of additional resources (funding and personnel) by April 1, 1993.

ACCOMPLISHMENTS

- Completed the draft performance assessment for submittal to the steering committee. Submittal to the U.S. Department of Energy, Richland Operations Office (RL) is projected in July 1993.
- Completed the Grout Vault Closure Plan study on March 23, 1993.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Place cold cap material in vault 101.
- Sample feed DST 241-AP-102 and begin characterization activities in preparation of a data package to be sent to the Washington State Department of Ecology (Ecology).
- Complete Grout Treatment Facility capacity study. This study will analyze the logistics on the number of vaults to be filled each year.
- Develop vault 102 campaign plan, which will define the operating envelope.

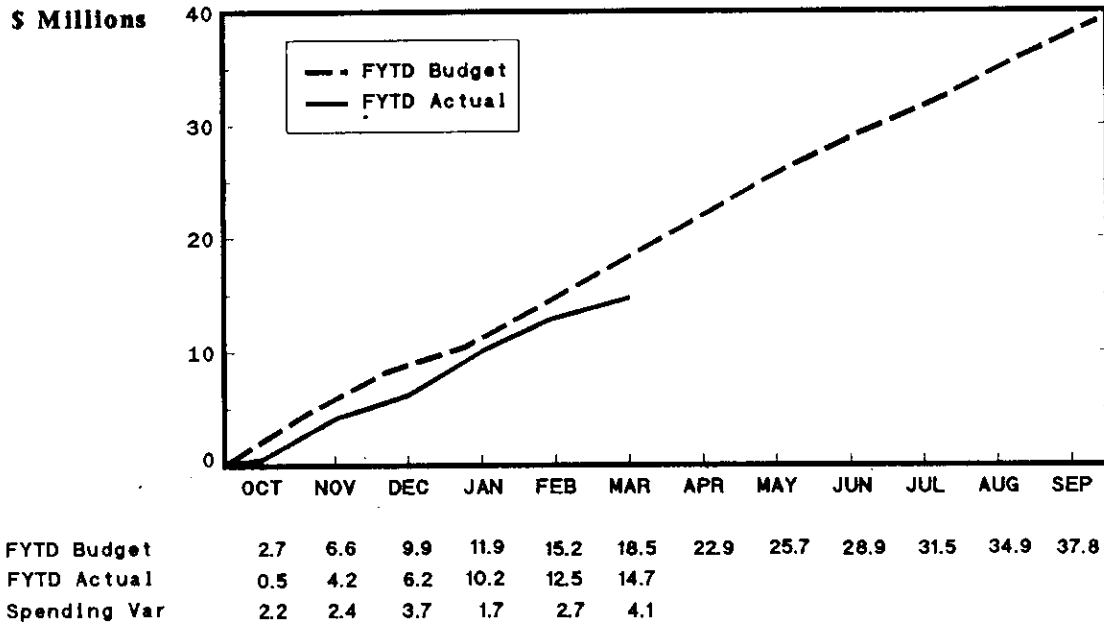
- Submit performance assessment with best estimate case to RL for review and forward to U.S. Department of Energy, Headquarters (HQ) peer review panel.
- Continue engineering of facility upgrades such as fire protection, Grout Processing Facility computer modifications, ventilation heat trace, lube oil, sanitary water, and fire system water.
- Develop building emergency plan and conduct necessary training.
- Complete operational test procedures on vault ventilation system and portable instrument house.
- Continue existing facilities evaluations.
- Continue developing and training personnel on administrative, operating, maintenance, and calibration procedures.
- Continue to resolve and close out comments from Brookhaven National Laboratory on the final safety analysis report. Continue confirmatory testing and validation of gas generation in the vaults.

MILESTONE STATUS/PROBLEMS/ISSUES

- HQ has received a letter from the U.S. Nuclear Regulatory Commission and has interpreted it as direction to pretreat waste grouting, which would have a significant impact on the Tri-Party Agreement. RL has requested written clarification from HQ.
- Reworking the Performance Assessment HQ Peer Review Panel (Comments/Recommendations) has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying Grout Treatment Facility Tri-Party Agreement milestones (reference Change Request M-01-92-01A).
- Heat of hydration and the time necessary to pour a grout campaign to ensure a "good" grout may impact the timely completion of grout milestones.
- Starting up the Grout Treatment Facility and initiating grout vault 102 filling to meet Milestone M-01-01A ("Complete and Verify Two Campaigns of DST Waste by 1993") is highly unlikely. Additional delays, associated with late mobilization in fiscal year (FY) 1993, facility readiness activities (e.g., procedures, facility upgrades), and resource availability are being incurred (reference Change Request M-01-92-01A).
- DST 241-AW-101 was planned as waste for grout vault 103 but has been added to the watch list. DST 241-AP-105 has been proposed as feed in place of DST 241-AW-101. Sampling of DST 241-AP-105 has been completed and waste analyses are proceeding.
- DST 241-AP-104 upgrades, second grout feed tank, have been restarted. This upgrade was delayed awaiting HQ reprogramming of funds. Field construction activities will begin in the summer of 1993.

- Sampling of DST 241-AP-102, vault 102 feed, has been delayed as a result of bringing tank waste to proper temperature and concerns about generation of additional solid waste. Sampling crew has been notified and is awaiting further direction.
- FY 1994 planning guidance coupled with tank waste remediation system (TWRS) baseline effort for FY 1995. The activity data sheets targets significantly delays grouting.

FY 1993



Variance Explanation: The cost underrun results from delays in the FSAR review work package, delays in operational readiness resulting from resource availability, and change from DST 241-AW-101 formulation due to placement on the "watch list" to DST 241-AP-105 for grouting of Vault 103. Contract personnel are beginning the compliance assessment phase of the readiness review. Portable instrument house and vault ventilation system have been installed at the vault site.

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MAJOR MILESTONE: M-02-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Initiate pretreatment of DST waste. DST waste must be pretreated before it can be disposed. Pretreatment supports the removal, treatment, and final disposal of DST wastes subject to land disposal restrictions (LDR). Removing the wastes from the DSTs and disposing of them in grout or glass will free DST space for single-shell tank (SST) waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-02-03	Submit TWRS baseline scope, cost, and schedule.	8/31/93	8/31/93
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	8/31/93

ACCOMPLISHMENTS

- Completed summary of neutralized cladding removal waste transuranic-extraction (TRUEX) laboratory development work (reference Target Milestone M-02-00-T03).
- Completed engineering study on cesium ion exchange capability (reference Target Milestone M-02-00-T04).
- Completed waste feed optimization (blending) study (reference Target Milestone M-02-00-T05).
- Completed technology plan for selection of advanced (actinide) separation process (reference Target Milestone M-02-00-T06).
- Completed and distributed draft documents for TWRS rebaselining.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

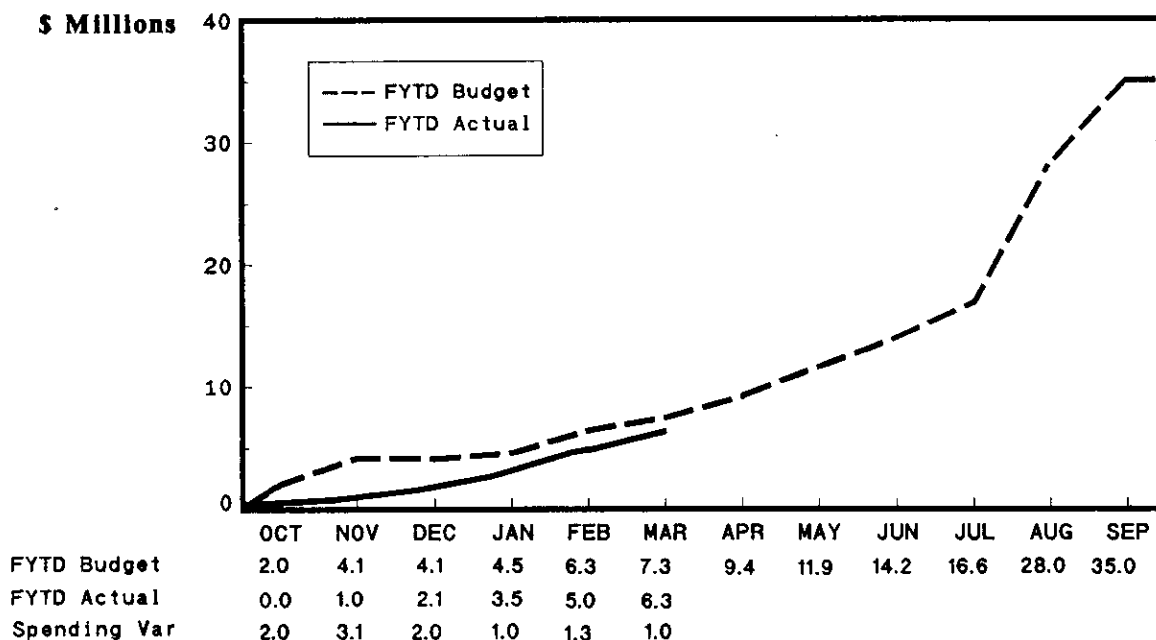
- Complete development of plans and resource-loaded schedules for waste retrieval and pretreatment as part of TWRS rebaselining.
- Prepare a retrieval program plan and technology development plans for retrieval and pretreatment.

- Complete a study to establish the near-term DST-SST retrieval sequence in support of pretreatment of tank wastes.

MILESTONE STATUS/PROBLEMS/ISSUES

- Reanalysis of Target Milestone M-02-00-T07 ("Initiate Settling Tests for NCAW In-Tank Solids Washing") shows this work can be delayed without impacting pretreatment work. Negotiations with Ecology have begun to allow a 1-year delay of this milestone.
- The TWRS rebaselining study was completed in March and draft documents were distributed to DOE, its contractors, and the regulators. A 6-month public participation period is beginning to allow public review and comment before agreements are reached with the regulators. The process will include public meetings, workshops and the formation of a "task force" of potentially affected individuals which will review the study and provide comments to the three parties.

FY 1993



Variance Explanation: The cost underrun results from schedule delays on Project W-151, "101-AZ Retrieval Systems," and Project W-211, "Double-Shell Tank Retrieval Systems," and selection of the Architect-Engineer on Project W-236B, "Initial Pretreatment Module." Costs have not been incurred at the planned rate. The spending variance will be reduced by increased emphasis on acquiring staff now that the head-count ceiling has been eased.

The annual budget for the Westinghouse Hanford Company (WHC) portion of the M-02 work scope was reduced by \$6 million from the December 1992 report as a result of the transfer of funds from WHC to Pacific Northwest Laboratory.

MAJOR MILESTONE: M-03-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: December 1999

DESCRIPTION: Initiate Hanford Waste Vittrification Plant (HWVP) Operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-03-05	Initiate construction of the Vittrification Building foundation.	3/93	9/93

ACCOMPLISHMENTS

- Issued the Washington State Department of Health radioactive air emissions permit on March 18, 1993.
- Presented results of the first phase of the increased HWVP throughput capacity study to senior WHC and RL management. The study concluded that the plant design can be modified to accommodate a melter with a fourfold increase in capacity within the current Vittrification Building foundation footprint.
- Demonstrated a total operating efficiency (TOE) exceeding 70 percent using the results of the first phase of a HWVP TOE evaluation. (A TOE of 70 percent is a requirement of the HWVP Project Functional Design Criteria.)
- An HWVP TOE evaluation demonstrated a TOE exceeding 70 percent, which was the goal of the study. (A TOE of 70 percent is a requirement of the HWVP Project Functional Design Criteria.)
- Detailed design is continuing (56.2 percent complete).

NOTE: Detailed design percent complete was erroneously stated for February 1993. It should have been (54 percent complete).

- The Canister Storage Building excavation was completed and the contractor has demobilized.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Start excavation and construction of the Vittrification Building and construction of the Canister Storage Building.

NOTE: The TWRS Rebaselining effort resulted in an "Agreement in Principle" between the Tri-Party Agreement parties to delay the start of construction of the Vitrification Building foundation for 6 months. During this period, public participation in the development of a New Technical Strategy for TWRS is planned.

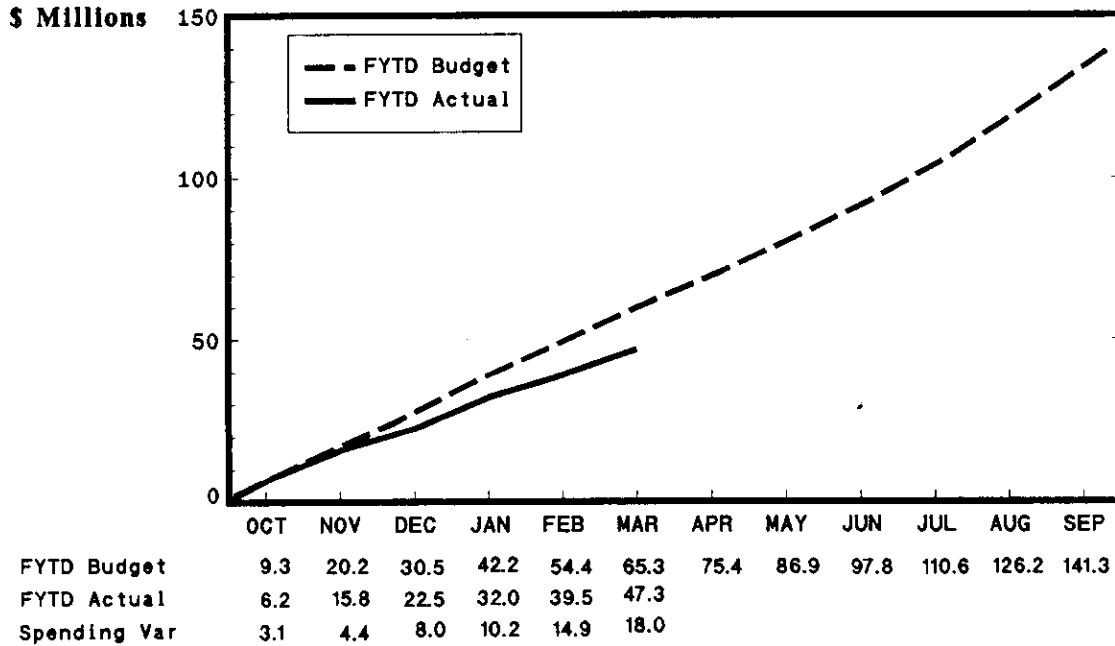
- Complete Phase II of the HWVP TOE evaluation, verifying assumptions made during Phase I.
- Initiate Phase II of a study to increase the throughput capacity of the HWVP.
- Continue construction of the Canister Storage Building.

MILESTONE STATUS/PROBLEMS/ISSUES

- Rescoping of the MWTF project could necessitate incorporating lag storage tank capability within the HWVP. A plan was submitted to RL for review. This issue is closed.

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FY 1993



Variance Explanation: The majority of the spending variance is a result of the following:

Fluor is underspent because the FY 1993 Budget is based on a staffing plan to accomplish a design completion in June 1994, but staff is being hired to support a delay to that goal to December 1994. Change Request HWVP-0713 is in process to replan the Fluor budget to be consistent with design completion in December 1994 and reschedule a portion of the FY 1993 work to FY 1994.

UCAT is underspent because site construction packages are delayed by weather, delayed key decisions, and subcontractors not progressing as scheduled. Also contributing to the spending variance is the delay of approval to commence construction of the vitrification building foundation because Key Decision 3B, planned for November 1992, is now forecasted for a March 1993 completion. Staffing and associated costs have been delayed for construction management. Recommendations are to allow UCAT to proceed with vitrification building excavation and foundation slab construction packages to minimize a potential delay to project completion.

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MAJOR MILESTONE: M-04-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: September 30, 1993

PROJECTED DATE: September 30, 1993

DESCRIPTION: Provide annual reports of tank waste treatability studies.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

ACCOMPLISHMENTS

- None to report.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

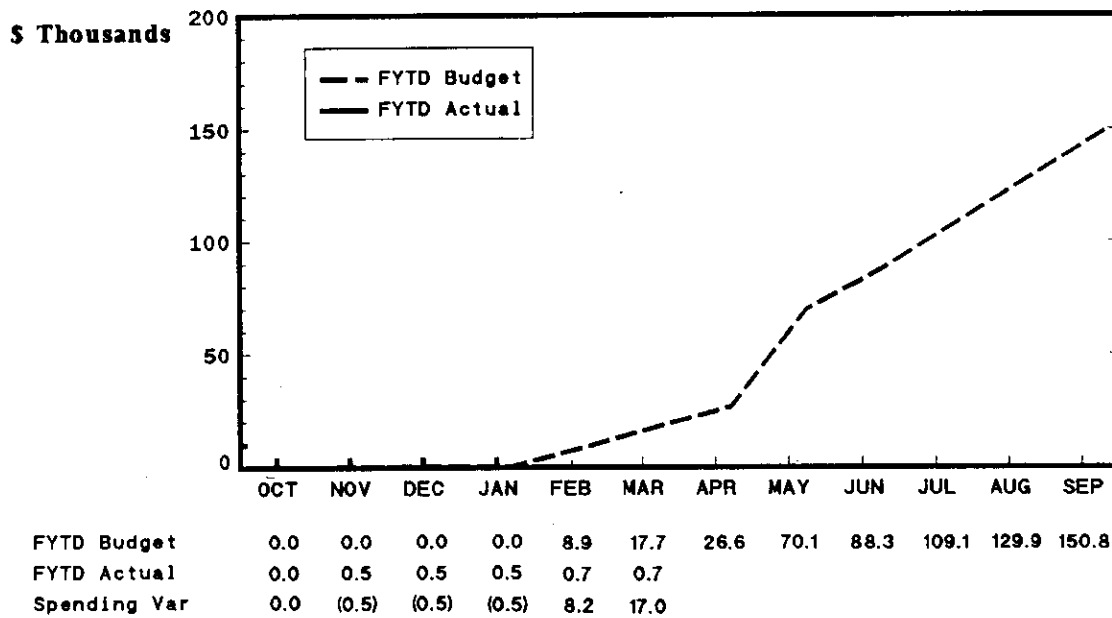
- Prepare and issue annual report.

MILESTONE STATUS/PROBLEMS/ISSUES

- None to report.

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FY 1993



Variance Explanation: None required. This chart is prepared in thousands to provide meaningful data. The budget baseline summary table shows zero because it is in millions.

MAJOR MILESTONE: M-05-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete SST interim stabilization.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-05-03	Interim stabilize an additional four SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional nine SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD
M-05-13	Upgrade leak detection and site characterization at SSTs 241-C-105 and -106.	4/93	4/93
M-05-17B	Complete Nuclear Operator training.	12/93	12/93
M-05-17C	Provide schedule for completing Operations Supervisor and Shift Manager training.	6/93	6/93

ACCOMPLISHMENTS

- Initiated the pumping (removal of liquids) from SST 241-T-101 on March 12, 1993, ahead of the Milestone M-05-16 due date. This milestone is complete.
- Provided a report on alternatives to pumping leaking SST 241-T-101. This report, an engineering evaluation of alternatives, satisfied the requirements of Milestone M-05-14.
- Submitted a report on liquid level detection options for SST 241-T-101, satisfying the requirements of Milestone M-05-15B.
- Submitted a recommended restructuring of the Interim Stabilization program as part of the Tank Waste Remediation rebaseline. Meetings with the regulators on this package are expected in the near future.
- Completed the spectral gamma logging of 11 of 14 required drywells around SST 241-C-105 and -106. Effort to date shows no evidence of leaks from either of these tanks.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

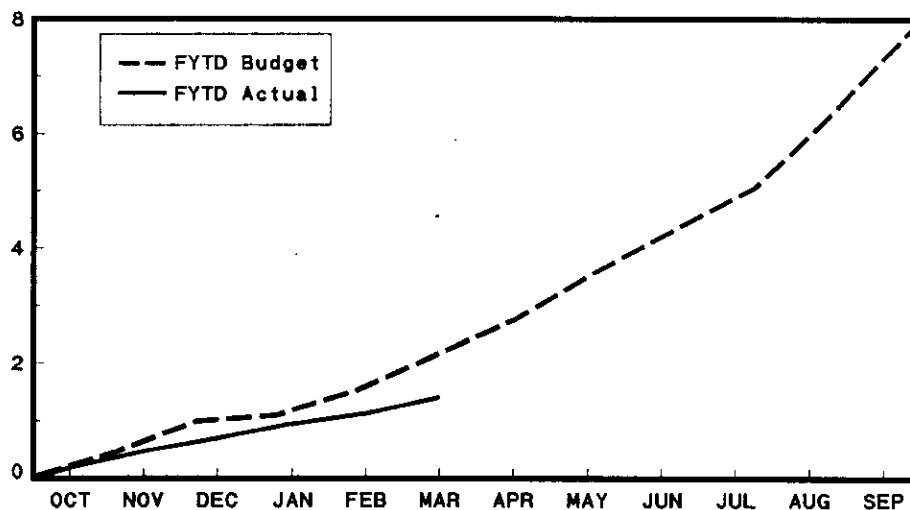
- Complete the spectral gamma logging of the dry wells around SSTs 241-C-105 and -106, in accordance with Target Milestone M-05-13-T02.
- Upgrade leak detection and site characterization at SSTs 241-C-105 and -106, in accordance with Milestone M-05-13.
- Issue schedule for completing Operations Supervisor and Shift Manager training (M-05-17C).
- Complete safety analysis report addendum to allow alternative methods for transfer of RAD waste within SST farms. This report is currently in RL for review.
- Complete integrity assessment of waste transfer lines.
- Continue restoration of double-contained receiver tank 244-U.
- Declare SST 241-T-101 as interim stabilized.
- Initiate pumping of SSTs 241-BX-110 and -111.

MILESTONE STATUS/PROBLEMS/ISSUES

- On April 1, 1993, SST 241-BX-111 was declared an assumed re-leaker. Steps are under way to identify the best method for reducing the drainable liquid to a level that will cease discharging waste to the surrounding soils. This tank was declared an assumed leaker in 1984.
- Winter weather conditions slowed progress towards meeting Interim Milestone M-05-13 and Target Milestone M-05-13-T02. Overtime and extra shift work are planned to attempt milestone schedule recovery.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. For personnel safety reasons, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200 areas tank farms were halted because of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a proposed Tri-Party Agreement change request.
- A safety question was raised about the hazards associated with removing liquid from SSTs and the resultant drying of the wastes potentially causing increases in tank content temperatures. Analyses and studies continue on this question.

FY 1993

\$ Millions



FYTD Budget	0.4	0.8	1.3	1.4	1.8	2.4	3.0	3.8	4.5	5.2	6.4	7.9
FYTD Actual	0.1	0.4	0.6	0.9	1.1	1.4						
Spending Var	0.3	0.4	0.7	0.5	0.7	0.9						

Variance Explanation: The spending variance is a result of SST 241-T-101 emergency actions, which are continuing. These activities have deferred resources from stabilization and isolation workscope to prepare SST 241-T-101 for emergency pumping, which is scheduled to be completed in June 1993. Alternative plans are being pursued to enlist additional resources (Kaiser Engineers Hanford Company) to support SST stabilization and isolation workscope. In addition, rebaselining of the N1 program is ongoing and specific resources to be used for SST 241-T-101 emergency corrective actions will be identified.

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MAJOR MILESTONE: M-06-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Develop SST waste retrieval technology and complete scale-model testing.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- No measurable progress this month.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

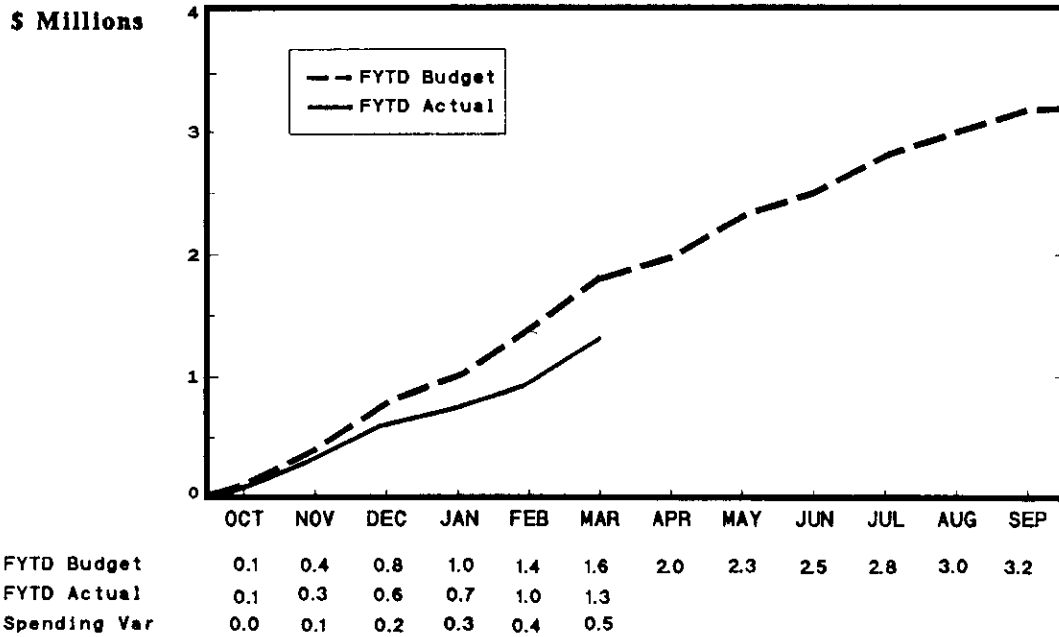
- Submit, review, and obtain regulator concurrence on the M-06 definition plan by September 1993.
- Complete tests of soft waste removal device with kaolin simulants used to simulate dry sludge wastes.
- Initiate testing of confined sluicing devices.
- Initiate testing of water jets for waste dislodging and conveyance assistance.
- Experimentally optimize retrieval rates using computer modeling. Define the air lift conveyance system limits.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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FY 1993



Variance Explanation: The majority of the variance results from subcontracts being placed later in the year than expected. The variance should be corrected once the contracts are in place.

MAJOR MILESTONE: M-07-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-07-02	Obtain Ecology concurrence/non-concurrence with SST selection criteria, retrieval options, and tank selection.	12/93	03/93

ACCOMPLISHMENTS

- Met with personnel from Ecology to discuss the employment of subsurface barriers during the waste retrieval process from SSTs. Studies on the potential application of subsurface barriers to restrict the flow of waste that may leak from a tank during retrieval activities have centered on three options: circulating air barrier, cone grouting, and encapsulation.
- Completed preliminary analyses on potential leaks from SST 241-C-106 during sluicing retrieval of the waste. Reviewed the results of this work with the regulators.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Receive comments from Ecology on the data submitted under Interim Milestone M-07-01 ("Tank Selection Criteria"). Obtain regulator concurrence on selected tank (SST 241-C-106) and sluicing as an acceptable method for tank waste retrieval. The receipt of Ecology's comments will complete Interim Milestone M-07-02.
- Develop a detailed plan for M-07-00 achievement, integrated with Milestone M-06-00 ("Develop SST Waste Retrieval Technology") and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Commence environmental and regulatory compliance documentation as required by Resource Conservation and Recovery Act (RCRA), *Washington Clean Air Act of 1967*, and *National Environmental Policy Act (NEPA)*.
- Develop and present to the regulators a position paper on regulatory compliance issues emanating from the tank waste retrieval program.

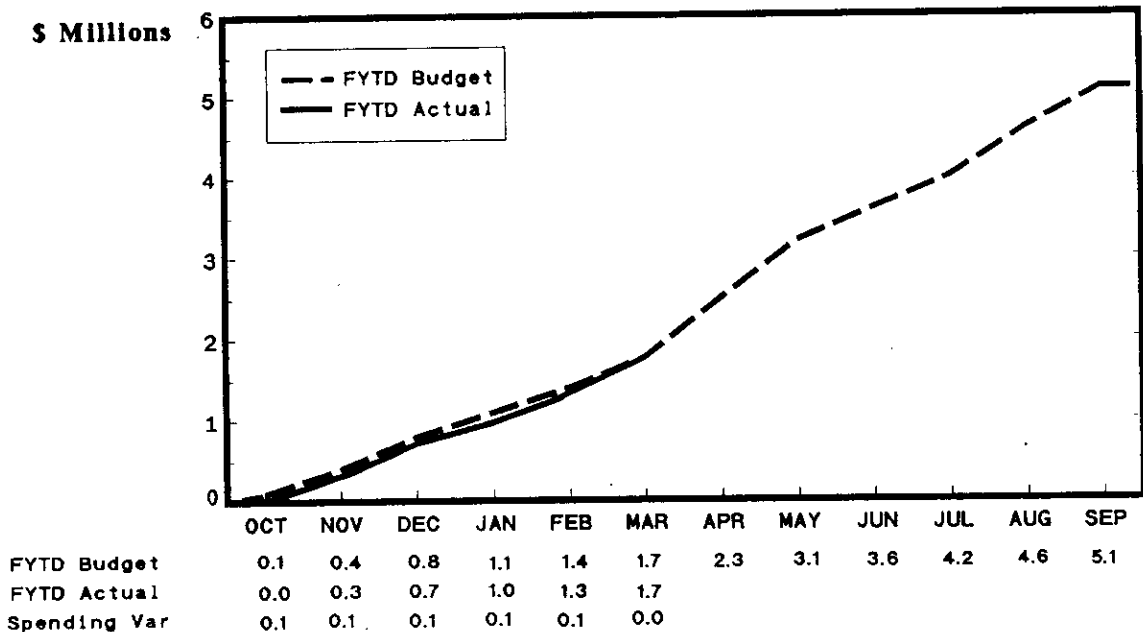
MILESTONE STATUS/PROBLEMS/ISSUES

- Preliminary assessments of the impacts of performing NEPA analyses (environmental assessment or environmental impact statement) suggest that NEPA could pose substantial schedule risk to this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will use sluicing technology. Significant development work is required before deployment of additional retrieval technologies. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95 percent waste retrieval criteria for the M-07 demonstration.

If sluicing is not accepted for the M-07-00 retrieval demonstration (Interim Milestone M-07-02), this milestone may require a Tri-Party Agreement change request because of a lack of available commercial technology, multiyear development efforts, and procurement lead-time restrictions.

- The preliminary studies on subsurface barriers (see bullet under "Accomplishments") indicates this technology to be in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled.

FY 1993



Variance Explanation: None required.

MAJOR MILESTONE: M-08-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- No significant progress in this reporting period.

PLANNED ACTIONS FOR THE NEXT 6 MONTHS

- Complete a tank farm retrieval program plan.
- Initiate Phase II of the subsurface barrier development study.

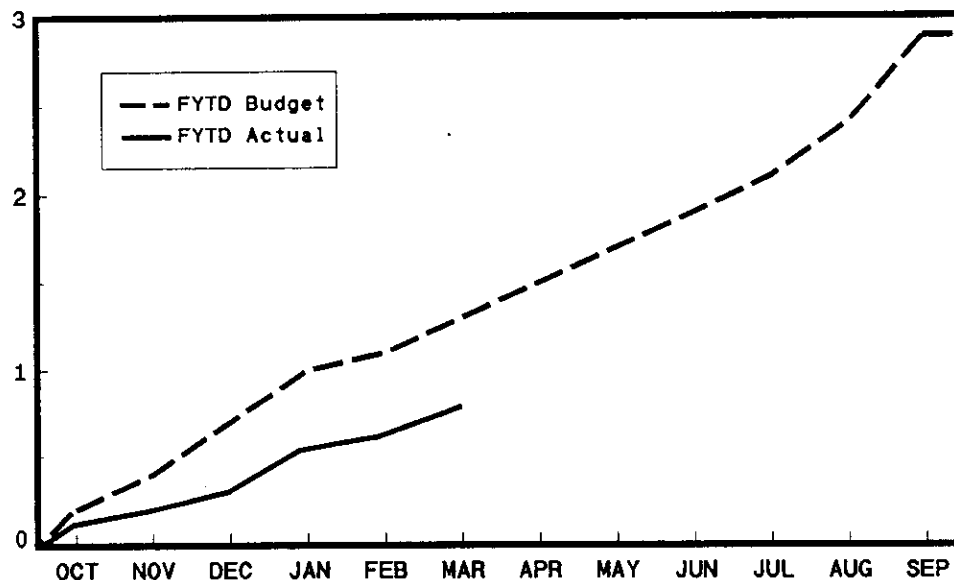
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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FY 1993

\$ Millions



FYTD Budget	0.2	0.4	0.7	1.0	1.1	1.3	1.4	1.7	1.9	2.1	2.4	2.9
FYTD Actual	0.0	0.2	0.3	0.5	0.6	0.8						
Spending Var	0.2	0.2	0.4	0.5	0.5	0.5						

Variance Explanation: The cost underrun results from manpower restrictions that have delayed start of a number of activities. Also, delays in tank leak studies (Phase II) startup activities, impacted by delayed comment resolution and incorporation in the tank leak studies (Phase I) have caused reduced expenditures. Tank leak studies (Phase II) began in March 1993 as scheduled.

MAJOR MILESTONE: M-09-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Completed borehole drilling and continued characterization activities around SST 241-T-106 for the field characterization work to support General Accounting Office Audit Item GAO-RCED-89-157. The borehole was completed to the 180-foot level; environmental and geophysical sample analysis continues.
- Submitted a proposed redefinition of the SST waste disposal strategy under the TWRS rebaseline effort.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

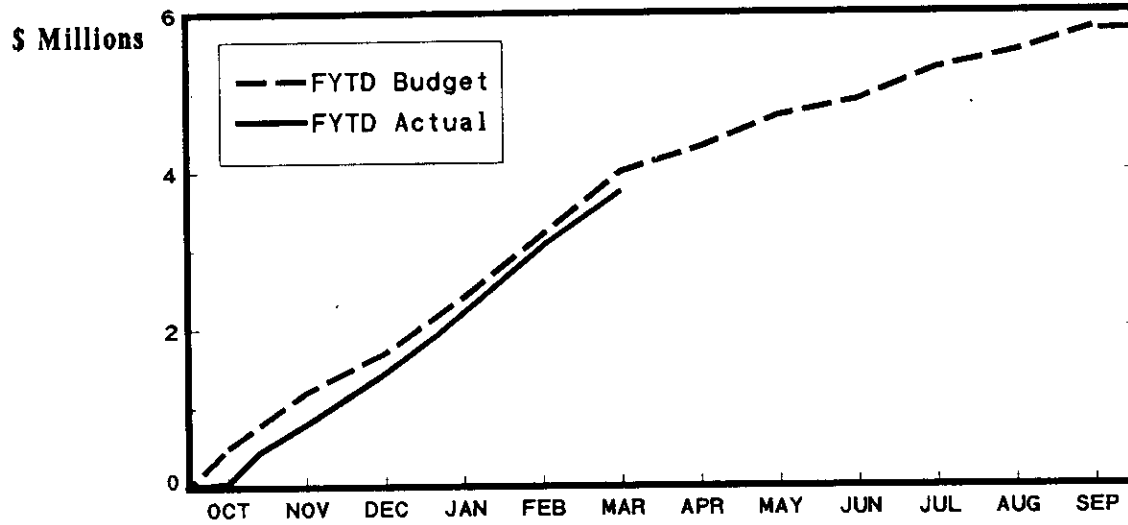
- Continue to redefine SST waste disposal strategy under the TWRS Decision Plan.
- Issue to the Federal Register a notice of intent for the TWRS Environmental Impact Statement for tank remediation at the Hanford Site.
- Commence work on the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

MILESTONES STATUS/PROBLEMS/ISSUES

- This milestone is on schedule; however, it may be in jeopardy unless preclosure activities can be accelerated. Several activities require acceleration: Supplemental Environmental Impact Statement and Record of Decision preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.

9 0 1 2 3 4 5 6 7 8 9

FY 1993



FYTD Budget	0.5	1.2	1.7	2.4	3.2	4.1	4.4	4.7	5.0	5.3	5.5	5.7
FYTD Actual	0.1	0.8	1.4	2.3	3.0	3.8						
Spending Var	0.4	0.4	0.3	0.1	0.2	0.3						

Variance Explanation: None required.

MAJOR MILESTONE: M-10-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

DESCRIPTION: Complete analyses of at least two complete core samples from each SST.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary model sampling capability at the Hanford Site.	9/93	9/93

ACCOMPLISHMENTS

- Obtained three core samples from SST 241-T-107: two cores for SST 241-T-102 and two cores for SST 241-T-105.
- Submitted a proposed redefinition of the SST waste characterization program under the TWRS rebaseline effort.
- Continued discussions with the regulators on a new HQ direction that proposes the SST Characterization Program and associated Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data is required to (1) resolve tank safety issues, (2) develop retrieval technologies, and (3) identify pretreatment technologies. Once agreement is reached on this new baseline, the changes will need to be reflected in the Tri-Party Agreement Major Milestone M-10-00.
- Completed characterization data packages for SSTs 241-B-202, -BX-107, -S-104 and -T-104, along with addenda for the SSTs 241-C-110 and 241-T-111 data packages.
- Completed the envelope test report for the rotary mode sampling system.

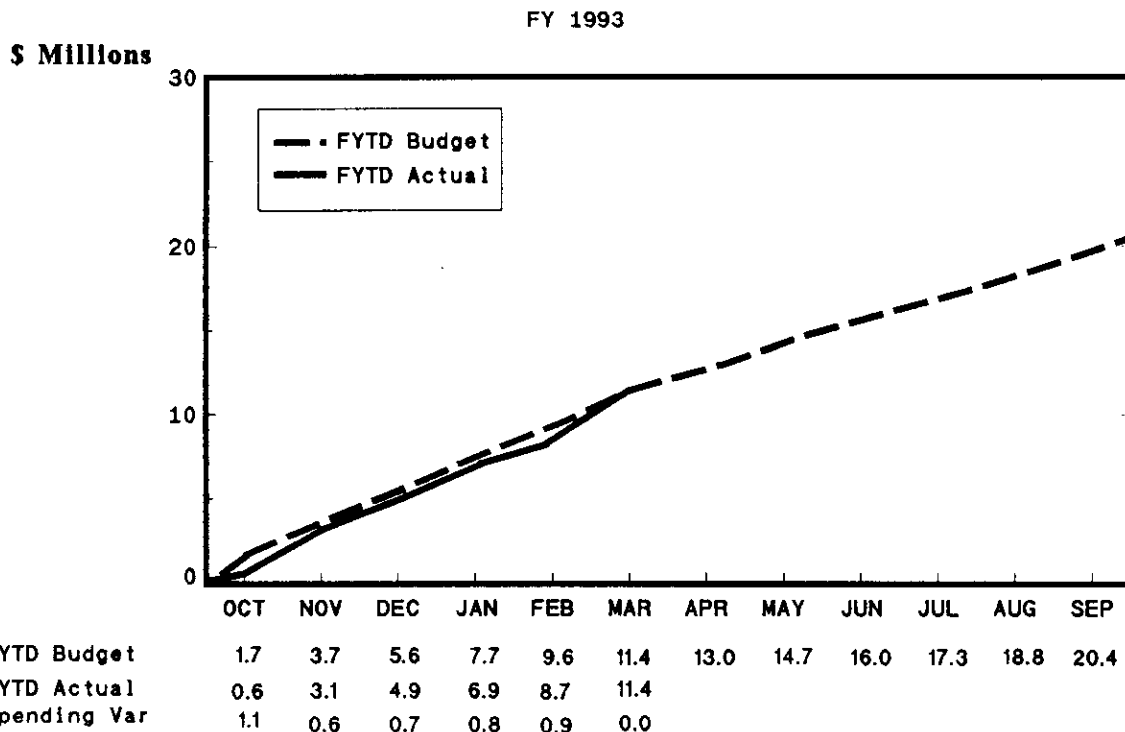
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Obtain core samples from SSTs 241-C-106, -C-111, -C-108, and -T-101. All these tanks are safety issue tanks.
- Continue rotary mode sampling testing and implementation.

- Complete design activity on the exhaustor required for the rotary mode sampling system and commence procurement and development.
- Issue the TWRS Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all TWRS requirements into a single plan.

MILESTONE STATUS/PROBLEMS/ISSUES

- The major milestone is on schedule; however, Interim Milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internal and in consonance with the regulators. These are being discussed with the regulatory community.
- Engineering and procurement studies for the rotary mode modular exhaustor design progressed. It appears that the milestone schedule may be impacted by procurement and fabrication lead times.



Variance Explanation: None required.

MAJOR MILESTONE: M-11-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Started installation of duct work. Applied furring strips to walls to permit the installation of sheet rock.
- Started installation of facility electrical system.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

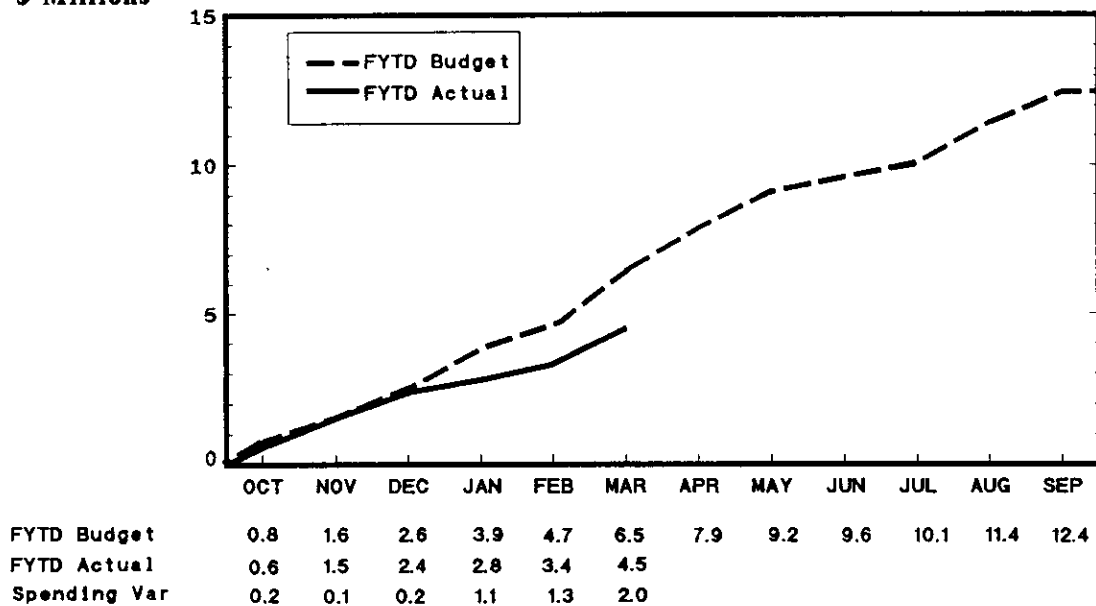
- Complete fabrication of the hot cells, ship to the Hanford Site, and install in the building.
- Start installation of electrical, ventilation, and piped services in and around hot cell.
- Receive shielding windows and manipulators.

MILESTONE STATUS/PROBLEMS/ISSUES

- Reprogramming funds have been received for Project W-001 (222-S Laboratory Ventilation and Electrical Upgrade). Project W-001 completion is expected to support the milestone to start hot cell operations.

FY 1993

\$ Millions



Variance Explanation: The variance results from noncritical path construction activities being slowed down on Project W-001, "222-S Vent and Electrical System Upgrade," to extend available funds. Additionally, procurement costs for W-001 are arriving later than planned.

MAJOR MILESTONE: M-13-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: Annual beginning
calendar year (CY) 1993PROJECTED DATE: Annual beginning
CY 1993

DESCRIPTION: Submit six remedial investigation/feasibility study (RI/FS) or RCRA facility investigation/corrective measures study (RFI/CMS) work plans each year.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-13-01	Submit 100-BC-2 work plan.	5/21/93	5/21/93
M-13-02	Submit 200-UP-1 work plan.	4/93	4/93
M-13-03	Submit 100-HR-2 work plan.	6/93	6/93
M-13-04	Submit 200-ZP-1 work plan.	8/93	8/93
M-13-05	Submit 100 DR-2 work plan.	10/93	10/93
M-13-06	Submit 200-BP-5 work plan.	12/93	12/93

ACCOMPLISHMENTS

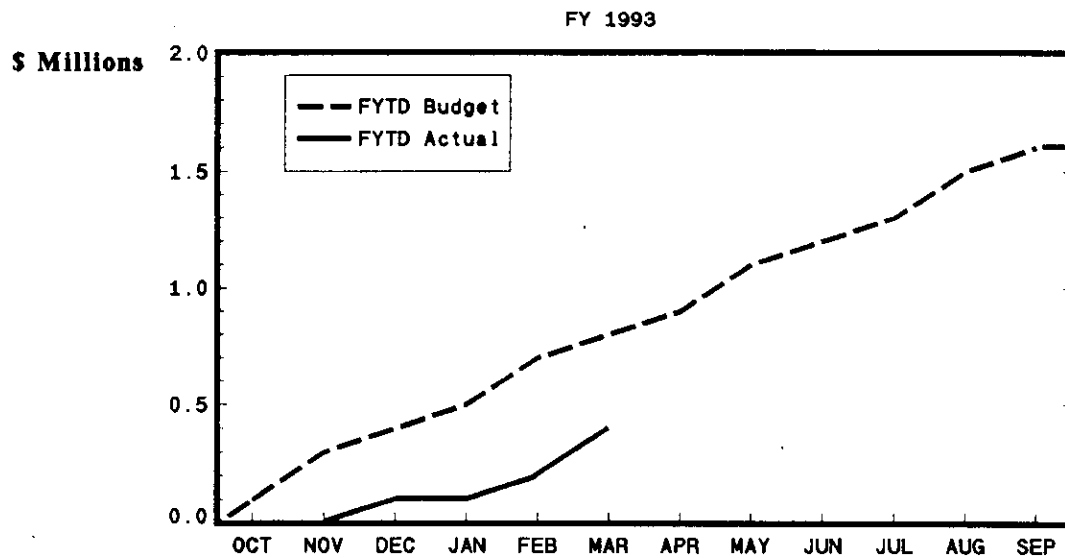
- Submitted operable unit (OU) 100-BC-2 Work Plan, which includes OU 100-BC-3 and 100-BC-4 work plans, to RL for review.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit the OU 100-BC-2 work plan to the regulators for review.
- Submit the OU 200-UP-1 work plan to the regulators for review.
- Submit the OU 100-HR-2 work plan to the regulators for review.
- Submit the OU 200-ZP-1 work plan to the regulators for review.
- Continue to resolve comments on the OU 200-UP-2 work plan with the regulators.
- Continue to resolve scheduling conflicts between N Operations and environmental restoration for the OU 100-NR-1 and 100-NR-2 work plans.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



FYTD Budget	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.6
FYTD Actual	0.0	0.0	0.1	0.1	0.2	0.4						
Spending Var	0.1	0.3	0.3	0.4	0.2	0.1						

Variance Explanation: The cost underrun results from the OU 100-BC-2 and 100-HR-2 OU work plans being prepared in house by WHC personnel as opposed to an offsite subcontractor. Additionally, the work plans reference existing approved work plans; therefore, the work plans required less document preparation.

MAJOR MILESTONE: M-14-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

ACCOMPLISHMENTS

- Construction is on schedule. Interior finishing work is in progress.
- The ironwork for the first two auxiliary structures buildings is being erected and concrete pads have been poured for three buildings.

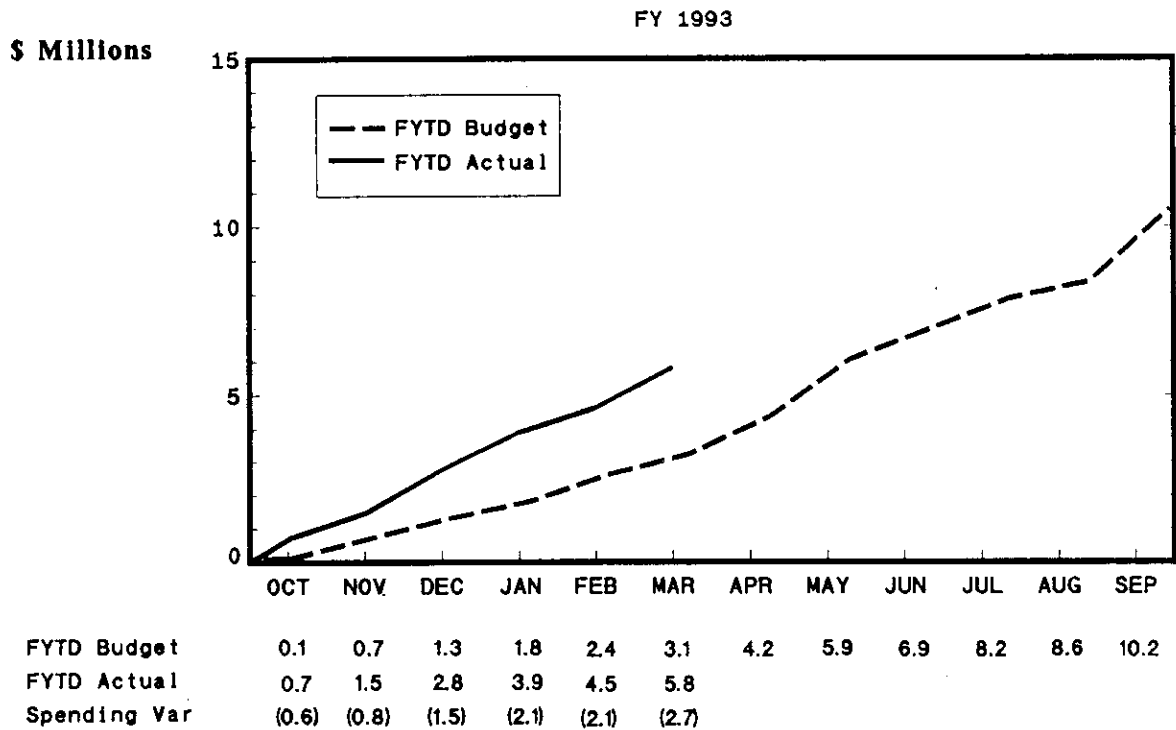
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue WSCF construction. Receive and install laboratory modules.
- Continue preparations for award of a commercial laboratory contract per M-14-04.

MILESTONE STATUS/PROBLEMS/ISSUES

- Proposals for providing commercial low-level mixed waste laboratory services are due by April 9, 1993.
- The U.S. Environmental Protection Agency (EPA) and Ecology have raised an issue of the schedule for bringing the local laboratory required by the SEC agreement into full operation. The current RL schedule is for the local laboratory to have capability to perform any of the required analyses by the milestone date (October 1995). Transition of analytical workload from the interim contract laboratories to the local laboratory would be phased over several months but would be complete no later than July 1996. The transition phase will be completed as quickly as practical without interfering with laboratory work to support ongoing investigations and to ensure meeting required turnaround times.

Discussions are continuing with the EPA and Ecology to reach mutual understanding.



Variance Explanation: The cost overrun results from the exclusion of previous years' capital budgets. Spending rates continue as planned to support the April 1994 waste sampling characterization facility startup. With previous years' capital budget included, trends indicate that this project will be completed at the approved project budget level.

MAJOR MILESTONE: M-15-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RCRA RFI/CMS process for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-15-02D	Submit draft Phase I, II, and III FS for 200-BP-1 source areas.	6/30/93	6/30/93
M-15-04A	Submit draft 300-FF-5 F/S Phase I and II report to EPA and Ecology.	7/15/93	7/15/93
M-15-05A	Submit OU 100-HR-1 Limited Field Investigation Report to Ecology and EPA.	8/9/93	8/9/93
M-15-05B	Complete OU 100-HR-1 Treatability Study Activities.	11/30/93	11/30/93
M-15-05C	Submit OU 100-HR-1 Focused Feasibility Study Report to Ecology and EPA.	9/30/94	9/30/94
M-15-05D	Submit the OU 100-HR-1 Interim Remedial Measures Proposed Plan to Ecology and EPA.	9/30/94	9/30/94
M-15-06A	Submit OU 100-HR-3 Limited Field Investigation Report to Ecology and EPA	10/31/93	10/31/93
M-15-06B	Complete OU 100-HR-3 Treatability Study Activities.	11/30/93	11/30/93
M-15-06C	Submit OU 100-HR-3 Focused Feasibility Study Report to Ecology and EPA.	9/30/94	9/30/94
M-15-06D	Submit OU 100-HR-3 Interim Remedial Measures Proposed Plan to Ecology and EPA.	9/30/94	9/30/94
M-15-08B	Submit OU 100-BC-1 Limited Field Investigation Report to Ecology and EPA.	7/31/93	7/31/93
M-15-08C	Submit OU 100-BC-1 Treatability Study Report to Ecology and EPA.	1/31/94	1/31/94

Milestone	Description	Baseline	Projected
M-15-08D	Submit OU 100-BC-1 Focused Feasibility Study Report to Ecology and EPA.	11/30/94	11/30/94
M-15-09B	Submit OU 100-BC-5 Limited Field Investigation Report to Ecology and EPA.	8/31/93	8/31/93
M-15-09C	Submit OU 100-BC-5 Focused Study Report to Ecology and EPA.	10/31/94	10/31/94
M-15-09D	Submit OU 100-BC-5 Information Resource Management Proposed Plan to Ecology and EPA.	10/31/94	10/31/94
M-15-10A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-KR-1 to Ecology and EPA.	10/31/93	10/31/93
M-15-10B	Submit OU 100-KR-1 Limited Field Investigation Report to Ecology and EPA.	8/31/94	8/31/94
M-15-10C	Submit OU 100-KR-1 Focused Feasibility Study Report and the OU 100-KR-1 IRM Proposed Plan to Ecology and EPA.	4/31/95	4/31/95
M-15-11B	Submit OU 100-KR-4 Limited Field Investigation Report to Ecology and EPA.	1/12/94	1/12/94
M-15-11C	Submit OU 100-KR-4 Focused Feasibility Study Report to Ecology and EPA.	10/31/94	10/31/94
M-15-11D	Submit OU 100-KR-4 Information Resource Management Proposed Plan to Ecology and EPA.	10/31/94	10/31/94
M-15-13A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-FR-1 to Ecology and EPA.	11/31/93	11/31/93
M-15-13B	Submit OU 100-FR-1 Limited Field Investigation Report to Ecology and EPA.	9/30/94	9/30/94

Milestone	Description	Baseline	Projected
M-15-13C	Submit OU 100-FR-1 Focused Feasibility Study Report to Ecology and EPA.	5/31/95	5/31/95
M-15-13D	Submit OU 100-FR-1 IRM Proposed Plan to Ecology and EPA.	5/31/95	5/31/95
M-15-13E	Submit validated data of all sampling activities associated with Section 5.1.1.6, "Groundwater Investigation," for OU 100-FR-3 to Ecology and EPA.	6/14/93	6/14/93
M-15-13F	Submit OU 100-FR-3 Limited Field Investigation Report to Ecology and EPA.	4/14/94	4/14/94
M-15-13G	Submit OU 100-FR-3 Focused Feasibility Study Report to Ecology and EPA.	12/14/94	12/14/94
M-15-13H	Submit OU 100-FR-3 IRM Proposed Plan to Ecology and EPA.	12/14/94	12/14/94

ACCOMPLISHMENTS

- Submitted soil and groundwater data validation reports for OU 100-KR-4 to the regulators, thus completing Tri-Party Agreement Milestone M-15-11A.
- Completed the third round of groundwater sampling at OU 100-KR-4.
- Submitted soil data validation report for OU 100-FR-3 to the regulators.
- Completed the fourth round of groundwater sampling at OU 100-HR-3.
- Issued Revision 0 of the Groundwater Treatability Test Plan for OU 100-HR-3 to the regulators.
- Submitted data validation reports for vadose zone drilling at OU 100-HR-1 to RL and the regulators.
- Completed the third round of groundwater sampling at OU 100-NR-2.
- Issued 100 Aggregate Area Ecological Investigation Validated Data to the regulators.
- Submitted 200-BP-1 RI Phase I Report to the regulators.
- Completed the draft limited field investigation work plan for OU 200-UP-1 and transmitted it to RL for review.

- Submitted a Tri-Party Agreement Change Request to RL for Redefinition of OU 200-ZP-1 to be a groundwater-only OU and move the source waste OUs into OU 200-ZP-2.
- Partial delivery of the 300-FF-1 prototype Soil Washing Treatability equipment (floatation cells) was received from EPA.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

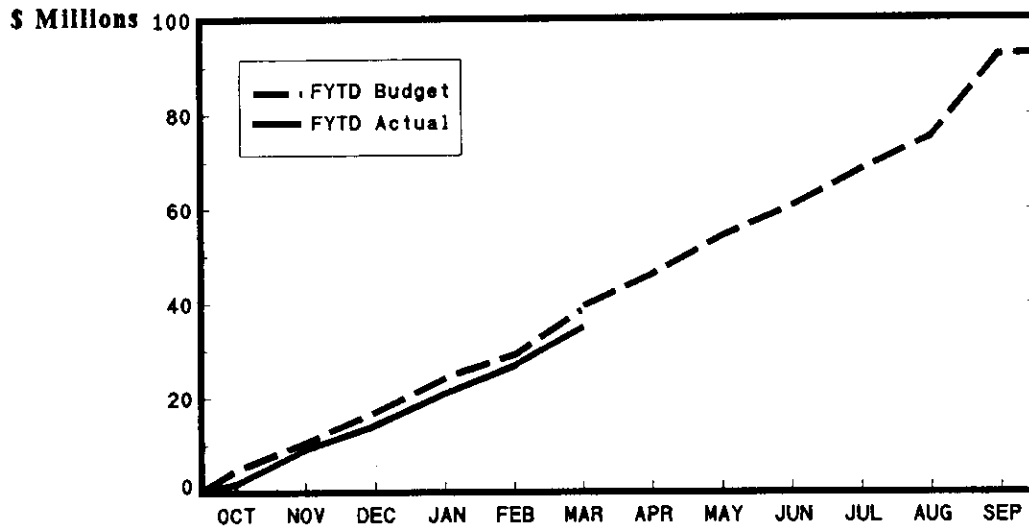
- Finalize reviews and comments on the FS study for OUs 1100-EM-2, 1100-EM-3, and 1100-IU-1.
- Finalize and review comments on 1100 Area proposed plan.
- Complete the second round of groundwater sampling at OU 100-FR-3.
- Submit validated data of all sampling activities "Groundwater Investigation," for OU 100-FR-3 by June 14, 1993.
- Submit OU 100-HR-1 limited field investigation Report to Ecology and EPA by August 9, 1993.
- Complete the resolution of comments on the 200 North and Semiworks aggregate area management study reports in April.
- Complete the eighth round of groundwater sampling scheduled for July 1993 for OU 200-BP-1.
- Submit OU 200-BP-1 combined FS Phases I, II, and III reports to the regulators by June 30, 1993, to complete Tri-Party Agreement Target Milestones M-15-02D and M-15-04A.
- Submit OU 300-FF-5 draft RI Phase I report, and the FS Phases I and II reports mid-July 1993 to complete Tri-Party Agreement Milestone M-15-4T1 and M-15-04A.
- Complete transfer of all soil washing equipment from the EPA to RL.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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FY 1993



FYTD Budget	4.6	11.0	17.2	24.7	29.9	38.5	46.7	54.0	60.7	68.0	77.3	92.2
FYTD Actual	2.3	9.1	14.3	21.2	27.2	34.7						
Spending Var	2.3	1.9	2.9	3.5	2.7	3.8						

Variance Explanation: The cost underrun is to charges not being received from the contractor for the Vapor Extraction system; Large-Scale Remediation Test Pit investigation planned for 100-BC Area being placed on hold pending approval by RL on the scope of work; and quarter sampling analytical costs are less than planned.

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MAJOR MILESTONE: M-16-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2018

PROJECTED DATE: September 2018

DESCRIPTION: Complete the remedial actions for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

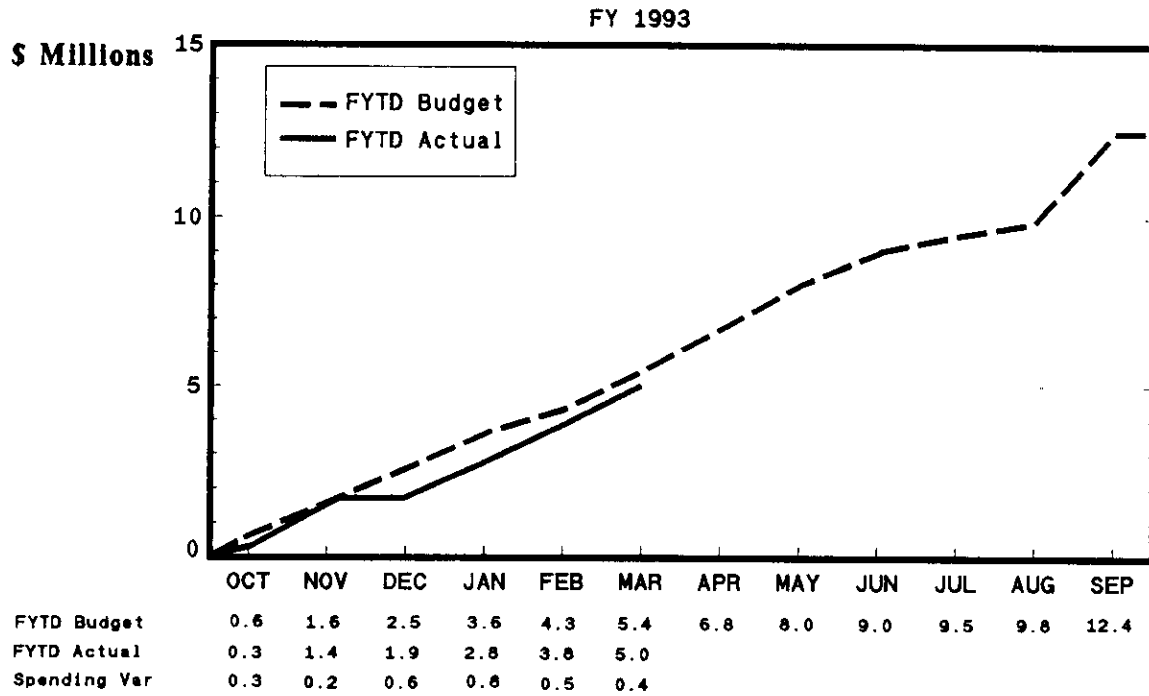
- Began removing drums from the sodium dichromate burial ground.
- Completed system upgrades to a 3,000-cubic-feet-per-minute capability at the Carbon Tetrachloride ERA and initiated operations on March 31, 1993.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete the N Springs engineering evaluation and cost analysis by the end of April 1993.
- Resolve comments and review data for the White Bluffs Pickling Acid Crib ERA.
- Submit the draft engineering evaluation and cost analysis for the Riverland expedited response action (ERA) in April 1993.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



Variance Explanation: The cost underrun results from drilling and activities associated with the carbon tetrachloride expedited response action not commencing until March 1993.

MAJOR MILESTONE: M-17-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:**BASELINE DATE: June 1995****PROJECTED DATE: June 1995**

DESCRIPTION: Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:**BASELINE DATE: October 1997****PROJECTED DATE: October 1997**

DESCRIPTION: Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment for all Phase II liquid effluents at the Hanford Site.

PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-17-09A	Complete definitive design of "300 Area Treated Effluent Disposal Facility" (Project L-045H) and submit design documentation to the EPA and Ecology as a primary document.	7/93	7/93
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by "291-Z Closed Loop Cooling" (Project C-040) and "Plutonium Finishing Plant Liquid Low-Level Waste System Modification" (Project B-680H). Reduce the discharge to Crib 216-Z-20 to less than or equal to 75 gallons per minute, averaged over the calendar month.	1/94	1/94

ACCOMPLISHMENTS

- Initiated construction of the "242-A Evaporator/Plutonium-Uranium Extraction (PUREX) Condensate Treatment Facility" (i.e., Project C-018H) process facility buildings and permanent structures.
- Received conditional approval from Ecology to initiate construction of the 242-A Evaporator/PUREX Condensate Treatment Facility process facility buildings and permanent structures.

- Submitted 30 percent definitive design to Ecology of the Project W-049H disposal system and initiate detailed definitive design work on the disposal system. Received Ecology comments on the design submittal.
- The EPA and Ecology approved the Sampling and Analysis Plan for the 300 Area Process Sewer for use.
- Submitted 30 percent design report to Ecology for the Project C-018H disposal site.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

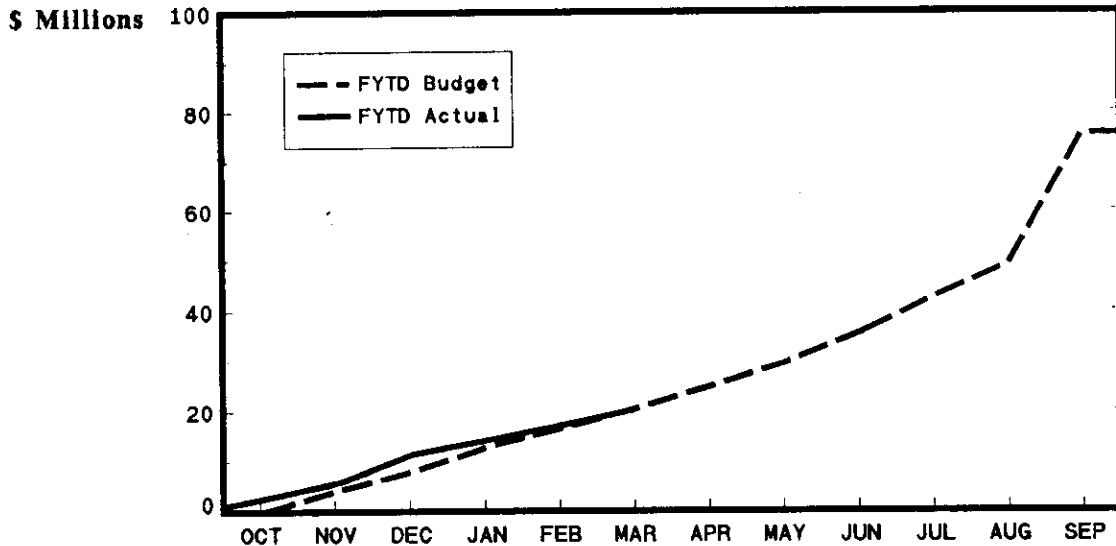
- Evaluate bids and select a vendor for the 300 Area Treated Effluent Treatment Facility construction contract.
- Initiate construction of the Project W-049H collection system.
- Submit final design on the 300 Area Treated Effluent Disposal Facility (Project L-045H) to EPA and Ecology for approval (M-17-09A).
- Present groundwater assessment plans to EPA and Ecology for Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M by April 1993. Submit these plans to EPA and Ecology by September 1993 (M-17-13).
- Submit the groundwater assessment plans to EPA and Ecology for Crib 216-U-17 by June 1993 and the 100-D Ponds by July 1993 (M-17-13).
- Submit the State Waste Discharge permit application to Ecology for the Project C-018H disposal site.
- Submit the 80 percent design report to EPA and Ecology for the Project C-018H disposal site and treatment facility.
- Submit the addendum to the WAC 173-240 Engineering Report to Ecology for the 200 Area Effluent Treatment Facility (Project C-018H). The addendum will address pilot plant test results.
- Submit the addendum to the WAC 173-240 Engineering Report to Ecology for the site characterization work plan. This report will transmit the results of the site characterization activities for the 200 Area Treated Effluent Disposal Site (Project C-018H).
- Obtain Key Decision 1, approval to proceed with Advanced Conceptual Design, from HQ for Project W-252, "200 Area Phase II Stream Treated Effluent Disposal Facility."

MILESTONE STATUS/PROBLEMS/ISSUES

- The milestone is on schedule. Design work for the 300 Area Treated Effluent Disposal Facility (Project L-045H) is ahead of schedule.

- Ecology and EPA outlined the terms and conditions under which they would approve continued discharge of the 300 Area Process Sewer to the 300 Area Process Trenches. Conditions include abandonment of the western trench, additional flow restrictions, additional reporting requirements, and installation of additional flow measuring devices. Negotiations with the regulators on this issue have begun and the change request is targeted for completion by the May 1993, Project Managers' meeting.
- Compliance with all effluent flow restrictions contained in Tri-Party Agreement Milestone M-17 have been maintained.
- Several minor changes packages (i.e., Class III Changes) are forthcoming on this milestone. These proposed changes pertain to modifications required to implement the Sampling and Analysis Plans. Proposed changes include a modification of analytical methods to be used to determine specific parameters (i.e., nitrate, nitrite, and acidity) and sampling locations. These changes will not affect the quality of effluent or affect the quality or reliability of sampling results.

FY 1993



FYTD Budget	0.3	4.3	8.3	12.9	16.2	20.4	24.7	29.6	36.0	42.5	49.8	77.8
FYTD Actual	2.4	6.9	10.7	14.1	17.3	20.2						
Spending Var	(2.1)	(2.6)	(2.4)	(1.2)	(1.1)	0.2						

Variance Explanation: The decrease in the overall budget results from not including budget and cost associated with work scope previously thought to support Milestone M-17-00.

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MAJOR MILESTONE: M-18-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

DESCRIPTION: Complete Waste Receiving and Processing (WRAP) Facility, Module 1, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- RL submitted Air Permit Applications to Ecology and the Washington Department of Health.
- Continued discussions about the RCRA permit application at the monthly Tri-Party Agreement Unit Managers' meeting.

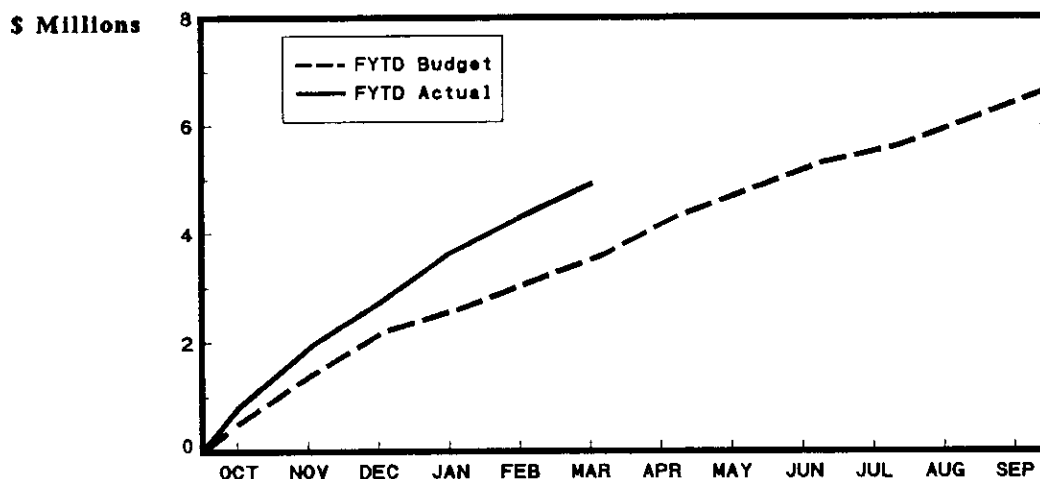
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Initiate construction of WRAP Facility, Module 1.
- Continue Title 2 Design activities and complete 90-percent design review.
- Complete glovebox testing.
- Complete the WRAP Facility, Module 1, preliminary safety analysis report (PSAR).
- Prepare construction bid packages for WRAP Facility, Module 1. These bid packages will cover major components of the WRAP Facility (e.g., electrical system, heating and ventilation system, fire protection system). Private firms will bid on these packages.
- Submit the air emissions-related permit applications to EPA.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

FY 1993



FYTD Budget	0.5	1.4	2.2	2.6	3.1	3.7	4.2	4.7	5.1	5.5	5.9	6.3
FYTD Actual	0.8	1.9	2.7	3.6	4.2	4.9						
Spending Var	(0.3)	(0.5)	(0.5)	(1.0)	(1.1)	(1.2)						

Variance Explanation: The cost overrun reflects the delays experienced in resolving technical issues associated with the following: transuranic glovebox design, compaction of empty transuranic drums, and segregated transuranic waste loadout. Considerable interaction and additional effort was required by the outside contractor (U.E.C) to address these issues. This resulted in additional effort being expended to finalize the engineering studies. Change Request W025-055 to modify the transuranic glovebox design has been approved and the contract modification is currently under way to increase funding for this change. Once the change has been implemented, the cost issues will be resolved.

MAJOR MILESTONE: M-19-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

DESCRIPTION: Complete WRAP Facility, Module 2, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- RL submitted the engineering study for WRAP Facility, Module 2B, to EPA and Ecology. This engineering study evaluates and makes recommendations for transuranic waste treatment alternatives for inclusion into the WRAP Facility, Module 2B (i.e, proposed Interim Milestone M-19-03).
- Submitted the reply to Ecology's latest inquiry regarding the M-19 Change Request. Ecology's questions centered on the budgeting cycle and FY 1993 funding.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue preparation of the advanced conceptual design for WRAP Facility, Module 2A.
- Obtain approval of Tri-Party Agreement Change Request M-19-91-01 from Ecology and EPA.
- Continue with waste form qualification testing.
- Initiate activities for the development of the WRAP Facility, Module 2A, PSAR.
- Obtain Key Decision 1 for WRAP Facility, Module 2A, from HQ. This decision is required to proceed into definitive design of the project.

MILESTONE STATUS/PROBLEMS/ISSUES

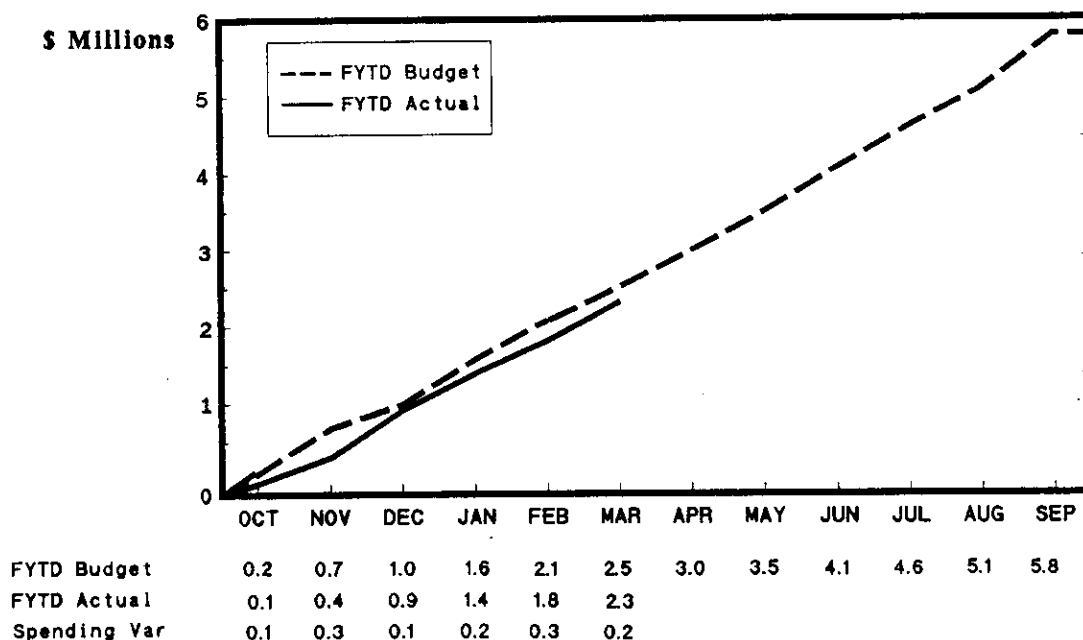
- Technical issues associated with the Waste Isolation Pilot Plant waste acceptance criteria continue to impact the design of WRAP Facility, Module 2. A strategy for the WRAP Facility, Module 2B, is being evaluated in light of the Waste Isolation Pilot Plant waste acceptance

9 3 1 2 9 3 4 1 1 8

criteria issues. Work on the portion of WRAP Facility, Module 2 (i.e., WRAP Facility, Module 2B) that will receive and process remote-handled transuranic waste contaminated hazardous waste (i.e., mixed remote-handled transuranic waste) is behind schedule. The portion of WRAP Facility, Module 2, that is not affected by the Waste Isolation Pilot Plant waste acceptance criteria (i.e., WRAP Facility, Module 2A) remains on schedule. The submodularization of WRAP Facility, Module 2, is reflected in Tri-Party Agreement Change Request M-19-91-01. Ecology and EPA continue to review this change request.

- WRAP Facility, Module 2A, is on schedule for September 1999, the Tri-Party Agreement Milestone M-19-00 due date.

FY 1993



Variance Explanation: The change in the overall budget results from the following:

In late March, change request SWD93-37, "WRAP 2 Funding Increase," was approved by RL and funds were transferred to WHC. The approval of this change request allows both the advanced conceptual design report activities and Waste Form Qualification Program to continue. In addition, WHC avoided a 1.5-year slip to the associated Tri-Party Agreement milestones. The additional \$3 million has been incorporated into the present budgets, and they are currently being approved.

MAJOR MILESTONE: M-20-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

DESCRIPTION: Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units.

PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute*
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94*
M-20-50	Submit 200 Area Effluent Treatment Facility** Part B.	8/93	8/93

*See "Milestone Status/Problems/Issues."

**The unit name has been changed from the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility to the 200 Area Effluent Treatment Facility.

ACCOMPLISHMENTS

- Submitted a Notice of Deficiency response table for the 222-S Laboratory Complex Part B Permit Application to Ecology on March 11, 1993.
- Submitted Revision 1A of the Waste Water Pilot Plant Research, Development, and Demonstration Permit Application to the EPA and Ecology on March 22, 1993.
- Submitted a Notice of Intent for expansion of storage capacity at the 200 Area Effluent Treatment Facility on March 29, 1993.
- Submitted revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the DST System, 204-AR Waste Unloading Station, and the Transuranic Waste Storage and Assay Facility during March.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit a Notice of Intent for expansion of treatment and storage capacities at the DST System.
- Respond to Notices of Deficiency for the Low-Level Burial Grounds Part B Permit Application (M-20-06, completed December 1989), Liquid Effluent

Retention Facility Part B Permit Application (M-20-47, completed June 1991), 305-B Storage Unit Part B Permit Application (M-20-08, completed January 1990), and the 616 Nonradioactive Dangerous Waste Storage Facility Part B Permit Application (M-20-02, completed July 1989).

- Respond to Notices of Deficiency for the 4843 Alkali Metal Storage Facility Closure Plan (M-20-14, completed June 30, 1991), Hanford Patrol Academy Demolition Site (M-20-25, completed November 25, 1992), the Ashpit Demolition Site Closure Plan (M-20-26, completed November 25, 1992), the Hexone Storage and Treatment Closure Plan (M-20-27, completed November 25, 1992), the E-8 Borrow Pit Closure Plan (M-20-28, completed November 25, 1992), and the 216-B-3 Pond System Closure/Postclosure Plan (M-20-09, completed March 31, 1990)
- Revise 105-DR Large Sodium Fire Facility Closure Plan, 2101-M Pond Closure Plan, 304 Concretion Facility Closure Plan, and 303-K Radioactive Mixed Waste Storage Facility Closure Plan to reflect agreements reached with Ecology on Notice of Deficiency comments.
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the Hazardous Waste Treatment Unit 325/3100, SSTs, Laboratory Complex 222-S, Evaporator 242-A, Liquid Effluent Retention Facility, South Retention Basin 207-A, Crib 216-A-37-1, and the T Plant Complex.
- Submit the 200 Area Effluent Treatment Facility Part B permit application to Ecology and the EPA in compliance with Milestone M-20-50.

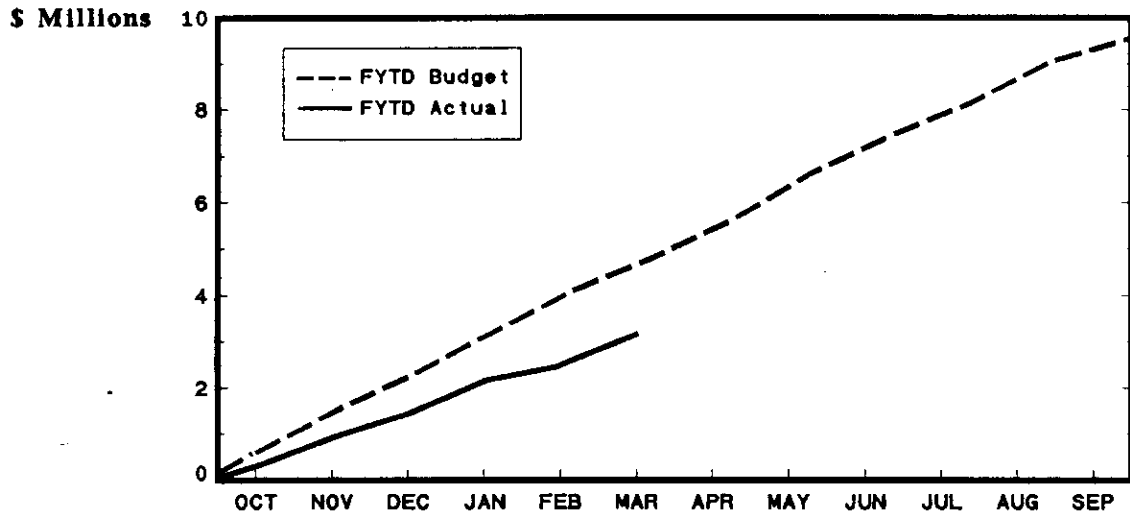
MILESTONE STATUS/PROBLEMS/ISSUES

- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--RL submitted to Ecology a request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete Milestone M-20-30. Ecology denied both. RL then prepared a notice of dispute and held a meeting with Ecology to initiate resolution. During the February Tri-Party Agreement Project Managers' meeting, Ecology requested that RL consider integrating the RCRA closure and *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) past practice remediation, keeping the Part A permit application in place, and requesting relief from some of the administrative interim status requirements. Later, the Ecology Tri-Party Agreement Project Manager directed RL to discuss this issue with the Ecology Kennewick Office. During a March 16, 1993, meeting, Ecology stated that their position is to conduct limited sampling, submit a RCRA closure plan, decontaminate and decommission the building, and leave the concrete slab for protection of Burial Ground 618-1. A meeting will be held with both RL and WHC General Counsel to discuss what the next step should be.
- M-20-50, "Submit 200 Area Effluent Treatment Facility Part B"--Work is proceeding on schedule to meet the current milestone date. The Part B permit application is being prepared for RL review.
- M-20-42, Submit Thermal Treatment Part B to Ecology and EPA (T-X-3)--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete

application can be prepared. A Change Package (M-20-92-7) to delay submittal of this Part B permit application from December 31, 1993, to December 31, 1994, was submitted to RL for approval on October 27, 1992.

- M-20-09, "Submit 216-B-3 Pond Closure/Postclosure Plan to Ecology and EPA"--A strategy and schedule is being prepared to combine remediation activities associated with the past practice OU, 200-BP-11, with the closure activities associated with the Pond 216-B-3 System. This strategy is in support of the activities necessary to administratively clean close the 216-B-3B and 3C lobes and partially close the 216-B-3 main pond and 3A lobe by June 1995. A decision must be reached between RL, Ecology, and EPA on this strategy to allow for continued use of the 3B and 3C lobes to support liquid effluent disposal (216 Consent Order). This position was presented to the Ecology and EPA Tri-Party Agreement Project Manager's who agreed in principle with the concept and agreed to continue negotiations with the appropriate unit managers.
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--A tabulation of updates has been prepared for the Hanford Facility Dangerous Waste Permit Application, Rev. 0, originally submitted to the regulators in October 1991. WHC and Pacific Northwest Laboratory have certified this tabulation. Briefing memorandums for HQ staff and Mr. Wagoner, a communications plan, and a response to query have also been prepared. The transmittal of the tabulation of updates, with the accompanying letter, has been awaiting authorization from HQ since October 1992. This authorization is not expected until April 1993. If significant changes are required as a result of the HQ review, WHC and Pacific Northwest Laboratory may have to recertify the tabulation of updates. These updates are now scheduled to be incorporated into Revision 1 of the Hanford Facility Dangerous Waste Permit Application by April 30, 1992. The schedule for reissuance of the revised Draft Hanford Facility Permit by the regulators is currently indefinite.

FY 1993



FYTD Budget	0.6	1.5	2.3	3.2	4.0	4.9	5.6	6.6	7.5	8.3	9.2	10.5
FYTD Actual	0.3	0.9	1.4	2.1	2.5	3.2						
Spending Var	0.3	0.6	0.9	1.1	1.5	1.7						

Variance Explanation: The cost underrun results from continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses resulting in less than planned support for follow-on revisions of these documents.

MAJOR MILESTONE: M-24-00
STATUS FOR END OF MONTH: March 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. THOMPSON

BASELINE DATE: December 1993

PROJECTED DATE: December 1993

DESCRIPTION: Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-24-00E	Install a maximum of 50 wells for CY 1993.	12/93	12/93
M-24-30	Install two additional wells RCRA around Crib 1325-N (4 total).	12/93	12/93
M-24-31	Install two additional RCRA wells around the Low-Level Burial Grounds (81 total)	12/93	12/93
M-24-32	Install three additional RCRA wells around the Grout Treatment Facility (13 total).	12/93	12/93

ACCOMPLISHMENTS

- Drilled to depth the first well at Crib 1325-N in support of M-24-30.

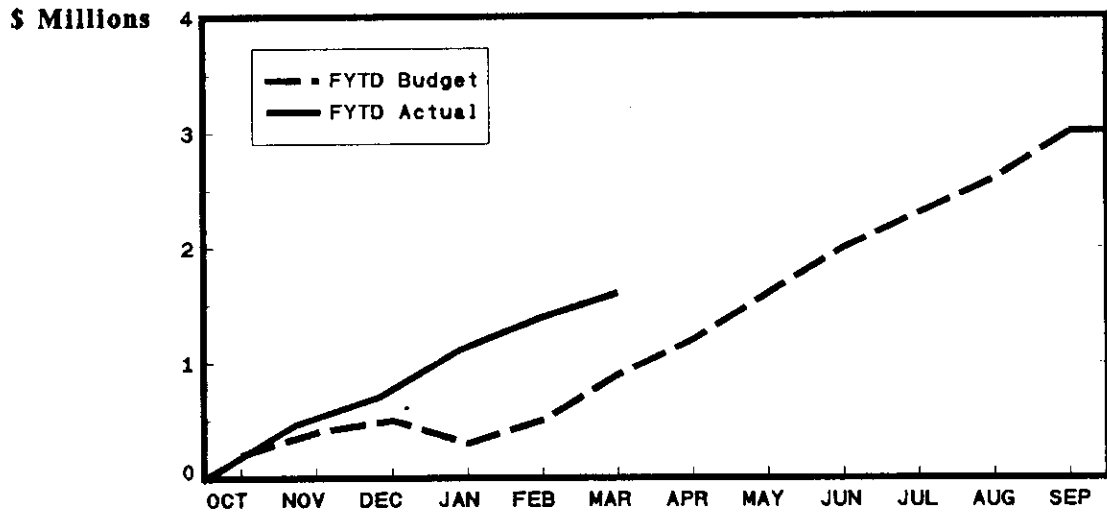
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Proceed with drilling activities for CY 1993 wells.

MILESTONE STATUS/PROBLEMS/ISSUES

- After identifying seven locations for new wells in CY 1993, Ecology and RL agreed that monitoring to be accomplished by one of the wells originally proposed at Crib 1325-N can be accomplished by an existing well. Change Request M-24-93-1, which reduces this milestone by one well, is being prepared; an interim requirement is specified for seven wells in CY 1993.

FY 1993



FYTD Budget	0.2	0.4	0.5	0.3	0.5	0.9	1.2	1.6	2.0	2.3	2.7	3.1
FYTD Actual	0.1	0.6	0.8	1.1	1.4	1.6						
Spending Var	0.1	(0.2)	(0.3)	(0.8)	(0.9)	(0.7)						

Variance Explanation: The cost overrun is artificial and is explained below:

The spending variance stems mainly from completing the drilling of the CY 1992 groundwater monitoring wells in December 1992, rather than in September, as was planned when the FY 1993 work plan was developed. RL de-obligated \$750,000 of the projects' funds in December. This reduction was included in January 1993; therefore, it appears as a reduction in FY 1993. After adjusting the de-obligation into the FY 1993 budget, the March FY to date budget is \$1.6 million with no true spending variance.

MAJOR MILESTONE: M-26-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: C. J. Geier

BASELINE DATE: April 1993

PROJECTED DATE: April 1993

DESCRIPTION: Submit annual Hanford Site LDR report in accordance with the LDR Plan to cover the period from April 1 through March 31.

PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-26-01C	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/93	4/30/93

ACCOMPLISHMENTS

- Submitted the 1993 LDR Report for RL review.

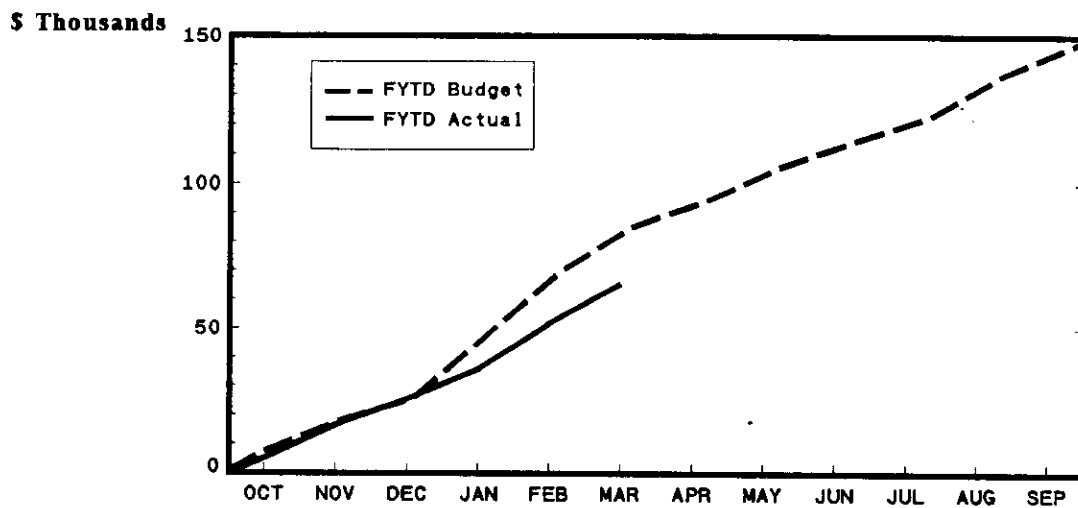
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Issue the 1993 LDR Report to EPA and Ecology as a primary document. Resolve regulator comments on the documents, and receive regulator approval of the document.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

FY 1993



FYTD Budget	7.5	17.7	25.5	47.4	69.4	85.3	94.3	105.8	114.4	122.4	136.6	147.1
FYTD Actual	5.3	16.4	25.1	35.6	52.0	65.4						
Spending Var	2.2	1.3	0.4	11.8	17.4	19.9						

Variance Explanation: None required. This chart is prepared in thousands to provide meaningful data. The Budget Baseline Summary table is prepared in millions and so shows zero.

MAJOR MILESTONE: M-30-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

DESCRIPTION: Complete integrated general investigations and studies for the 100 Area.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-30-05	Complete installation of all-field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

ACCOMPLISHMENTS

- Held scoping meetings with the regulators on the number and location of wells to meet the requirements for Milestone M-30-5 completion.

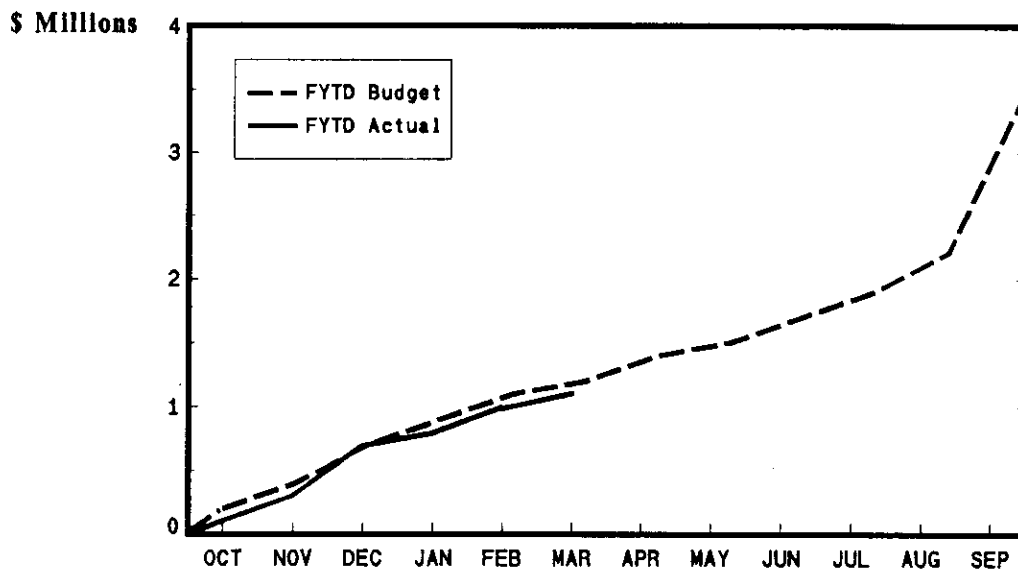
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Issue cultural resource reports in June 1993.
- Complete the second draft of the aquatic investigations after resolving the data validation qualifiers and other concerns.
- Complete installation of well monitoring equipment.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

FY 1993



FYTD Budget	0.2	0.4	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.2	3.6
FYTD Actual	0.0	0.3	0.7	0.8	1.0	1.1						
Spending Var	0.2	0.1	0.0	0.1	0.0	0.1						

Variance Explanation: None required.

MAJOR MILESTONE: M-31-00
STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Provide additional DST capacity. Construction complete.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

ACCOMPLISHMENTS

None.

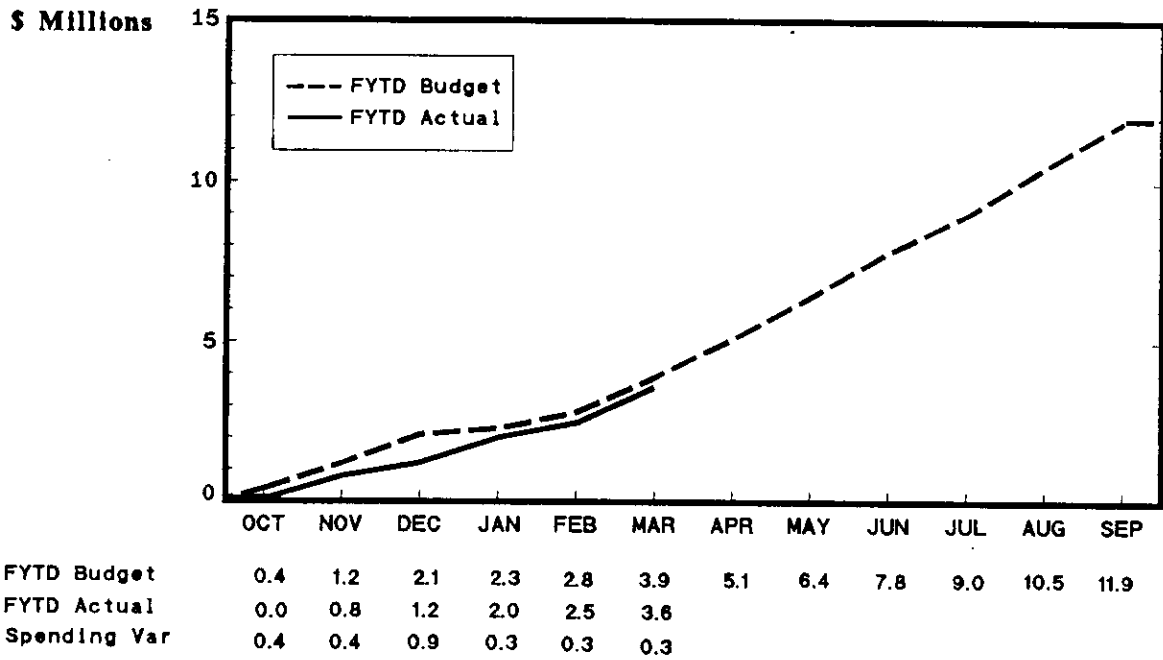
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Resolve the issues associated with the Ecology denial of Change Request M-31-92-03.
- Continue definitive design of the New Multi-Function Waste Tank Facility.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology reviewed meeting minutes for the August Tri-Party Agreement milestone management review meeting and concluded that the delay in submitting Milestone M-31-02, "Recommend Additional Tank Milestones," had been discussed at the Project Managers' meeting well in advance of the actual submittal of the change request. Ecology verbally recommended that the change request be accepted as written.
- The Advanced Conceptual Design Report was transmitted to RL for review and approval.

FY 1993



Variance Explanation: The increase in the overall budget is the result of receipt of capital funds and incorporating these funds into the project budget.

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